

Final Exams

PART TWO

27 Final Exams of Governorates 2017



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Final Exams of Governorates

2017

1

Cairo Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following statements :

1. The measuring unit of weight is, while the measuring unit of mass is
2. Copper is from conductors of heat.
3. Carbon dioxide molecule consists of one carbon atom linked with two atoms.
4. Nitrogen combines with a lighted magnesium composing substance.
5. The ribcage consists of pairs of ribs.

[B] Give reasons for :

1. Clear limewater becomes turbid when carbon dioxide passes in it.
.....
2. Oxygen cylinders are used during climbing mountains.
.....

2 [A] Write the scientific term of the following statements :

1. The building unit of the nervous system. (.....)
2. The amount of matter in an object. (.....)
3. The main control center in human body. (.....)
4. Gas is used in respiration and combustion processes. (.....)
5. Organ in the central nervous system responsible for the reflex action. (.....)

[B] Mention one function of :

1. The spring scale :
.....
2. Celsius thermometer :
.....
3. Ozone layer :
.....

3 [A] Put (✓) in front of correct statements and (✗) in front of incorrect one :

1. Oxygen gas represents 78% of the volume of the atmosphere. ()
2. Cooking pots are made of plastic. ()
3. Nitrogen gas is called azote which means "life gas". ()
4. Air is from good conductors of heat. ()
5. Oxy-acetylene flame is used in cutting and welding metals. ()
6. Cerebellum maintains the balance of the body during movement. ()

[B] What happens in the following cases ... ?

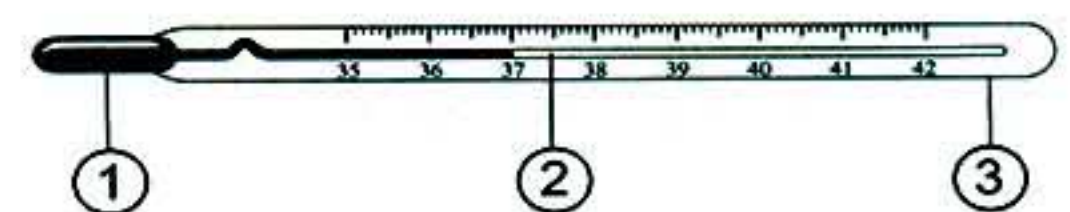
1. Continuous exposure the man to noise.
.....
2. Increase of carbon dioxide percentage in the atmosphere.
.....

4 [A] Choose the correct answer :

1. The lower fixed point in celsius thermometer scale represents the
freezing point.
a. liquids b. mercury c. water
2. Backbone consists of bony vertebrae.
a. 12 b. 21 c. 33
3. From the freely movable joints is
a. shoulder b. elbow c. knee
4. A weight of body is 2 Newton so its mass is equal to
a. 0.2 gm b. 20 gm c. 200 gm
5. Hydrogen peroxide dissociates in the presence of manganese dioxide
(as a catalyst) into
a. water b. oxygen gas c. water & oxygen gas

[B] Notice the following figure of medical thermometer, then label it :

- ①
- ②
- ③



2

Giza Governorate

The Educational Directorate

Answer the following questions :

1 [A] Choose the correct answer :

- From the substances which are bad conductors of heat is
a. iron b. wood c. copper
- Which of the following gases have great percentage in atmospheric air ?
a. Oxygen b. Nitrogen c. Carbon dioxide
- The joints which allow movement in one direction only are joints.
a. immovable b. slightly movable c. freely movable
- The operation of thermometer depends on the change of with the change in temperature.
a. gases volume b. liquid volume c. liquid mass
- The ribcage in man consists of pairs of ribs.
a. 10 b. 11 c. 12
- An object whose mass is (200 gm) on Earth's surface, so its weight equal
a. 2 Newton. b. 20 Newton. c. 200 Newton.

[B] What happen when ... ?

- We get rid of soil bacteria.
.....
- Exhaled air passes through clear limewater.
.....

2 [A] Complete the following statements:

- The weight of the body on moon's surface = of its weight on Earth's surface.
- Heat is a form of the forms of
- Divers use cylinder during diving under water.
- The centers of thinking and memory lie in
- The mass is measured by scale.
- Nitrogen is used in the manufacture of which doesn't rust.

[B] Compare between good conductors and bad conductors of heat :

Point of comparison	Good conductors of heat	Bad conductors of heat
Definition :



3 [A] Write the scientific term :

1. An indicator helps us to express the state of the body from point of hotness or coldness. (.....)
2. Long strips that fix muscles on bones. (.....)
3. The building unit of nervous system. (.....)
4. A force with which a body is attracted to the Earth. (.....)
5. A gas that its molecule is composed of three oxygen atoms. (.....)
6. An instrument used for measuring the temperature. (.....)

[B] Give reasons for :

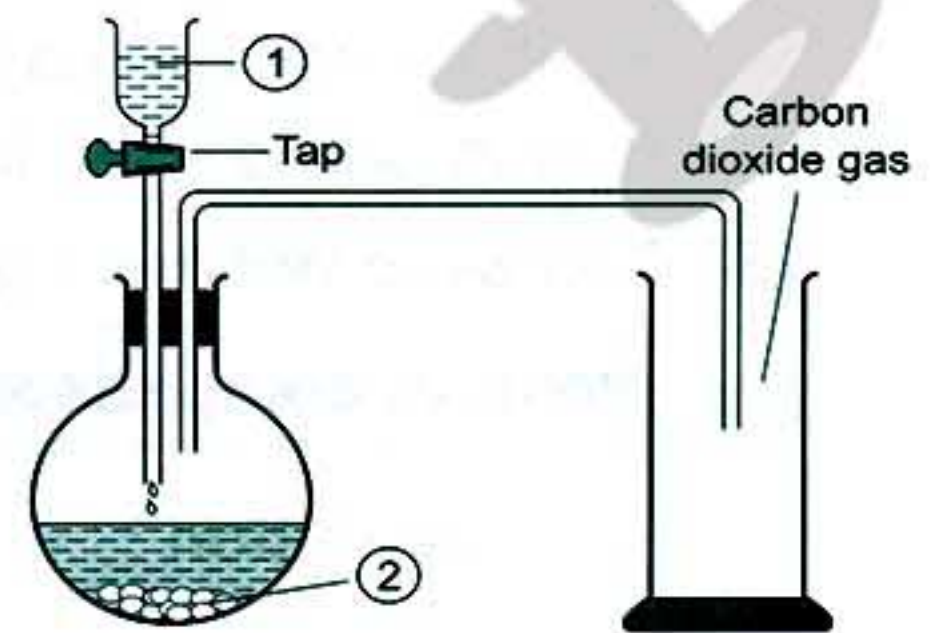
1. Damage of the medulla oblongata causes death.
.....
2. Carbon dioxide is used in extinguishing some fires.
.....

4 [A] Correct the underline word in the following statements :

1. Weight is a constant value and is not affected by changing the place. (.....)
2. The scale of the medical thermometer starts from 35°C to 100°C. (.....)
3. The axon of the nerve cell is surrounded by a gelatinous layer. (.....)
4. The cerebellum lies at the back area of the brain above the two cerebral hemispheres. (.....)
5. Hydrogen peroxide remains without change in quantity or properties during the preparation of oxygen gas. (.....)
6. The liquid that is used in making the thermometers is water. (.....)

[B] In the opposite figure answer the following :

1. Number ① Is
2. Number ② Is



3

Alexandria Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following :

1. The mass can be measured by and the weight can be measured by
2. The neuron consists of the cell body and which ends by the presence of
3. As the mass of the planet increases, its gravity and that leads to the weight of the object.
4. Carbon dioxide is prepared in the laboratory by adding to the powder of
5. Water freezes at Celsius and boils at Celsius.

[B] Mention the following only :

1. The substance that indicates presence of carbon dioxide. (.....)
2. An example of involuntary muscle. (.....)
3. The product substance from the combination of magnesium and oxygen. (.....)

2 [A] Write the scientific term of the following :

1. The part responsible for keeping the body balance during movement. (.....)
2. The degree of hotness or coldness of a body. (.....)
3. Locations of bones meeting that allow the movement between them. (.....)
4. A gas used in filling the planes and cars tires and also contributes in composing gunpowder. (.....)

[B] Correct the underlined words :

1. In preparing oxygen from hydrogen peroxide, Sodium hydroxide is used as a catalyst. (.....)
2. 12 pairs of ribs come out from the brain. (.....)
3. Iron is used in manufacturing kettles that are used in houses and factories. (.....)
4. The joint of shoulder is one of slightly movable joints. (.....)

3 [A] Choose the right answer from the following :

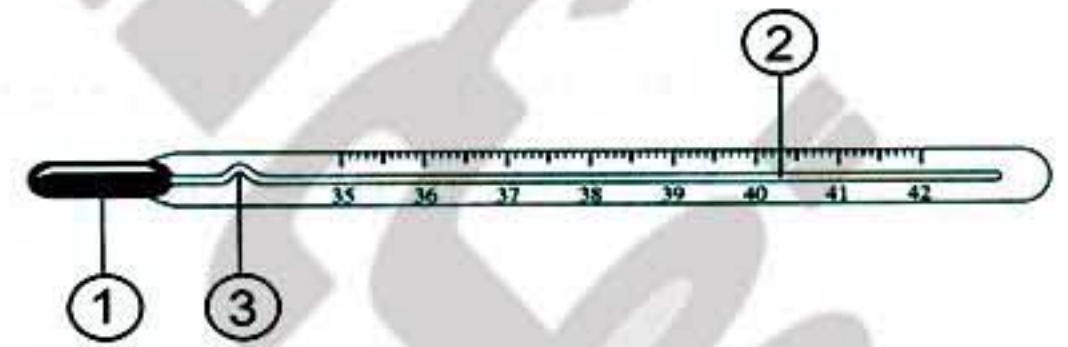
- The mass of one litre of water equals
a. 1 gm. b. 1 kg c. 100 Newton. d. 100 gm.
- Ozone gas consists of
a. One atom. b. two similar atoms.
c. three similar atoms. d. three different atoms.
- The gas that is used with acetylene gas in welding metals
a. hydrogen. b. oxygen. c. nitrogen. d. carbon dioxide.
- The centers of thinking and memory lies in
a. the medula oblongata. b. the spinal cord.
c. the vertebral column. d. the two cerebral hemispheres.

[B] Give reasons for the following :

- Passing the air on the hot copper during the preparation of nitrogen in lab.
.....
- The ribcage surrounds the heart and the two lungs.
.....
- Using wood in making the handle of cooking pots.
.....
- Using liquids in making the thermometers.
.....

4 [A] In the opposite figure that illustrates the structure of the medical thermometer :

- Number ① is a bulb contains
- Number ② is
- Number ③ is and its function is
- The thermometer scale starts from °C to °C.



[B] If the mass of a body equals 30 kg on the Earth surface. Calculate :

- Its mass on the moon surface.
.....
- Its weight on the Earth :
.....
- Its weight on the moon.
.....

[C] Compare between the structure of the axial skeleton and the appendicular skeleton :

Point of comparison	Axial skeleton	Appendicular skeleton
The structure

4 Kalyoubia Governorate

The Educational Directorate

Answer the following questions :

1 [A] Choose the correct answer :

- An object whose weight on the Earth's surface is 6 Newton, so its weight on the moon's surface is Newton.
a. 10 b. $\frac{1}{2}$ c. 1 d. $\frac{1}{6}$
- All the following are good conductors of heat except
a. aluminium and copper. b. iron and aluminium.
c. copper and iron. d. glass and wood.
- Hydrogen peroxide is used in preparing gas.
a. oxygen b. hydrogen c. nitrogen d. carbon dioxide
- is from the reflex action.
a. Heartbeats
b. Eating on feeling hungry
c. Blinking when something gets close to the eye
d. (a) , (b) and (c)

[B] Give reason for each of the following :

- There is a constriction above the mercury bulb in the medical thermometer.
.....
.....
- It is necessary to eat healthy food that is rich in calcium and phosphorus.
.....
- It is necessary to leave spaces between the railway bars.
.....
.....
- The ribcage surrounds both the heart and the lungs.
.....

2 [A] Write the scientific term :

1. The system responsible for controlling all body systems. (.....)
2. A colourless gas that is the main component of all protein compounds. (.....)
3. The area where bones meet and allow the movement. (.....)
4. The thermometer whose scale ranges from 35°C to 42°C. (.....)

[B] Mention one function for each of the following :

1. Cerebellum :
2. Tendons :
3. The spring scale :
4. The ozone layer :

3 [A] What happens in the following cases ... ?

1. A lighted magnesium ribbon is placed in a jar filled with nitrogen gas.
.....
2. Drinking big quantities of soft drinks.
.....
3. All the substances that man use are good conductors of heat.
.....
4. Condensation of nitrogen gas.
.....

[B] Compare between mass and weight according to :

Points of comparison	Mass	Weight
1. Measuring unit :
2. Measuring device :

4 [A] Put (✓) or (x) :

1. The liquid used in the medical thermometer is alcohol. ()
2. The shoulder joint is a freely moveable joint. ()
3. Cooking pots are made of plastic. ()
4. Heat transfers from a cold object to a hot object. ()

[B] Look at the following figure, then answer :

1. Write what each label represents on the figure :

①

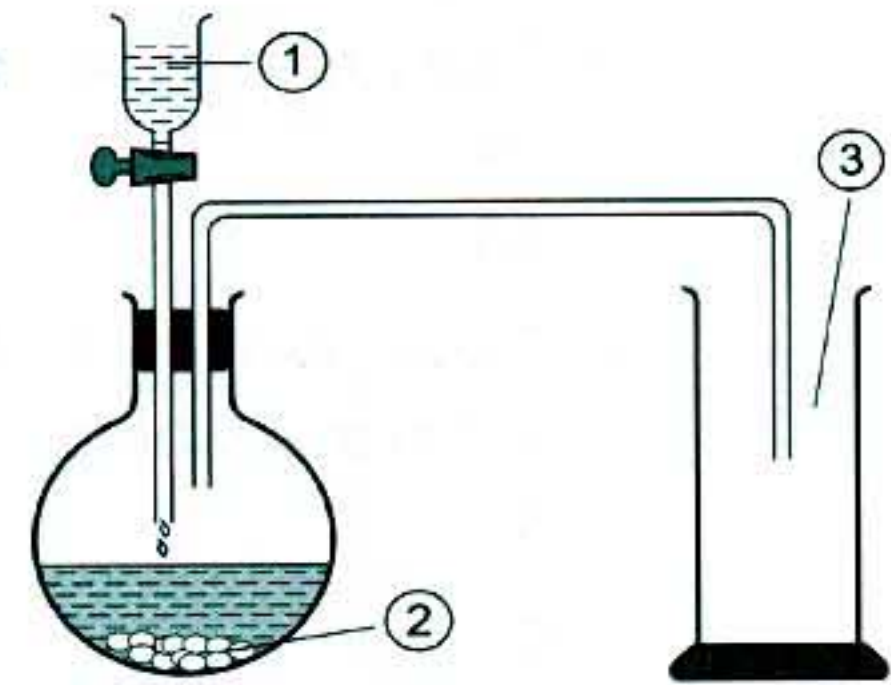
②

③ gas.

2. Mention one use for the evolved gas.

.....

.....



5

Sharkia Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following statements :

1. The number of cranial nerves is and the number of spinal nerves is
2. Oxygen is produced from process and carbon dioxide is produced from process.
3. Heat transfers from the temperature object to the temperature object.
4. As the mass of the planet on which the body exits increases, the of the planet increases and of the body increases.
5. The main center of the control in your body is and it is found inside a bony case called

[B] Give reason for each of the following :

1. Leaving spaces between the railway bars.

.....

2. Ozone gas is very important in nature.

.....

2 [A] Write the scientific term of each of the following :

1. The main source of preparing nitrogen gas. (.....)
2. Materials that don't let heat flow through. (.....)
3. What fixes muscles to bones. (.....)
4. The gas that turns limewater turbid. (.....)
5. The building unit of nervous system. (.....)

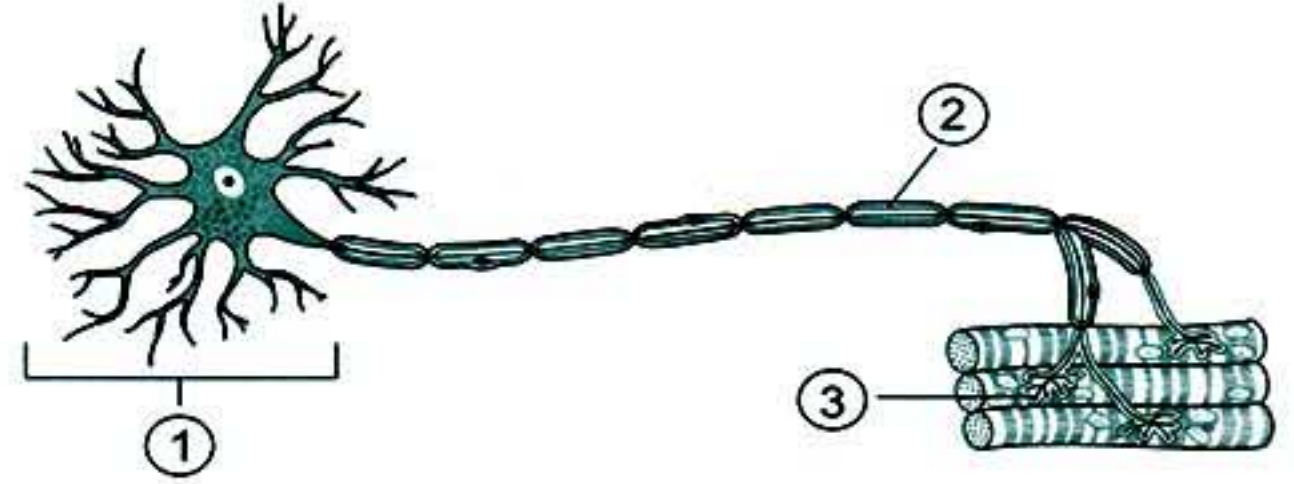
[B] Explain :

1. The mercury is used in manufacture of thermometers.

- a)
b)

2. Observe the opposite figure, and write the labels :

- ①
②
③



3 [A] What is the function of each of the following :

1. Hydrogen peroxide during the preparation of oxygen in the laboratory.

.....

2. Spring scale.

.....

3. Celsius thermometer.

.....

[B] Choose the correct answer :

1. Among the freely movable joints are joints.

- a. knee b. thigh c. elbow d. skull

2. Celsius is the measuring unit of

- a. weight. b. temperature. c. volume. d. mass.

3. The metal that is better in conducting heat is

- a. aluminium. b. iron. c. copper. d. mercury.

4. The thoracic in the man consists of pairs of ribs.

- a. 11 b. 31 c. 12 d. 14

5. Oxygen is present in the atmosphere in gas state in form of molecules, its structure

- a. O_3 b. O c. O_2 d. O_4

4 [A] Correct the underlined words :

1. Calcium carbonate is used in preparation of nitrogen gas. (.....)

2. There is a constriction above the mercury bulb in the Celsius thermometer. (.....)

3. The mass of the material decreases after combination with oxygen. (.....)
4. The spinal cord controls the heartbeats. (.....)
5. Nitrogen is also called azote which means life gas. (.....)

[B] An object whose mass on Earth is equal to (6 Kg). Calculate :

1. Its weight on the surface of the Earth.
.....
2. Its weight on the surface of the moon.
.....

6

Menofia Governorate

The Educational Directorate

Answer the following questions :

1 [A] Choose the correct answer :

1. The weight is measured by scale.
a. sensitive b. digital c. two arm d. spring
2. The liquid used in the Celsius thermometer is
a. hydrogen peroxide. b. alcohol.
c. water. d. mercury.
3. Which of the following is faster in conducting heat ?
a. Glass. b. Aluminium. c. Copper. d. Iron.
4. One of the slightly movable joints is the joint.
a. thigh b. shoulder c. wrist d. knee
5. is used to make the iron handle.
a. Iron b. Copper c. Aluminium d. Plastic
6. Carbon dioxide is produced when diluted hydrochloric acid is added to the
a. calcium carbonate. b. calcium oxide.
c. calcium hydroxide. d. calcium chloride.

[B] What would happen in the following cases ... ?

1. The overuse of soft drinks.
.....
2. Not leaving spaces between railway bars.
.....

2 [A] Write the scientific term of each of the following statements :

1. The measurement unit of weight which is almost equal to a mass 100 grams. (.....)
2. A flame used in cutting and welding metals. (.....)
3. The degree of hotness or coldness of a body. (.....)
4. A gas contributes in composing proteins and living tissues. (.....)
5. The phenomenon which leads to raise in the Earth's temperature and causes changes in the climate. (.....)
6. An organ connects the brain with the spinal cord and is responsible for involuntary processes. (.....)

[B] An object's mass = 30 kg on the moon's surface. Calculate :

1. Its mass on the Earth.
.....
2. Its weight on the Earth's surface.
.....
3. Its weight on the moon's surface.
.....

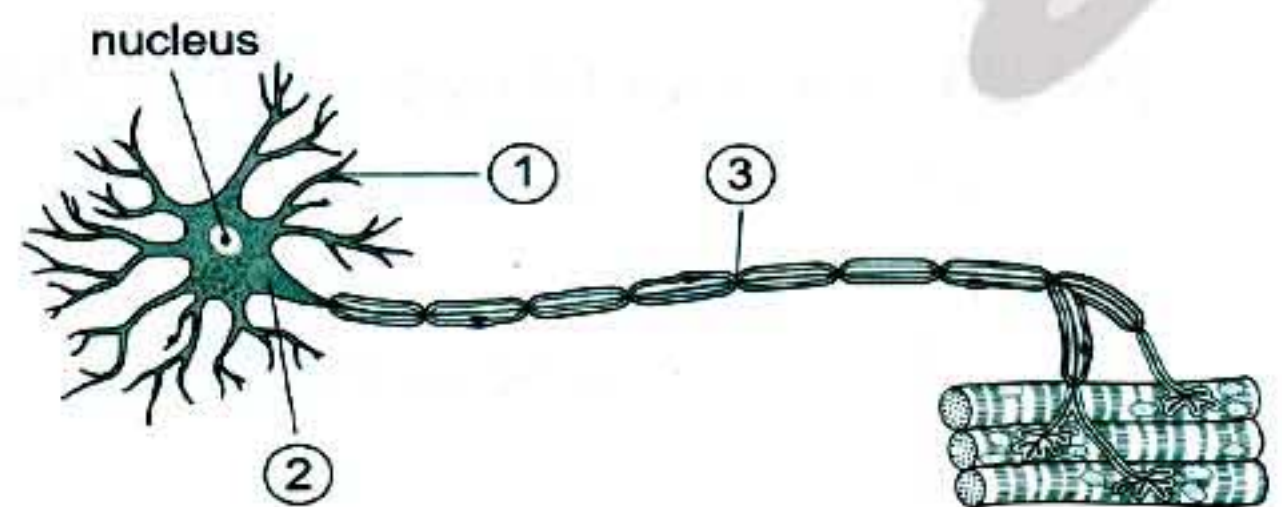
3 [A] Correct the underlined words :

1. The internal substance of the spinal cord is the yellow matter. (.....)
2. The liquid used in the medical thermometer is water. (.....)
3. Argon is used in extinguishing of fires. (.....)
4. The centers of thinking and memory are located in the medulla oblongata. (.....)
5. Hydrogen peroxide dissociates in the presence of manganese dioxide and produces helium gas and water. (.....)
6. The Earth gravitational force increases as the body moves away from the Earth. (.....)

[B] 1. What is the name of the opposite figure ?

2. Write down the labels on the figure.

- ①
- ②
- ③



4 [A] Complete the following statements by suitable words :

1. Materials are classified according to conducting heat into and
2. Mercury remains liquid between two degrees of temperature which are and
3. Carbon dioxide gas is converted into a liquid by and
4. The number of cranial nerves is pairs, while the number of spinal nerves is pairs.
5. The rapid union between oxygen and elements produces heat and light , it is named, whereas if it is slow in the presence of moisture , it is named
6. The controls the reflexes, while the cerebellum is responsible for

[B] Write the scientific reason of each of the following :

1. The windows in the cold countries are made of two sheets of glass with space containing air in between.
.....
2. Nitrogen is used in filling car tires.
.....
.....

7 Gharbia Governorate**The Educational Directorate****Answer the following questions :****1 [A] Complete the following statements :**

1. The scale of medical thermometer starts from °C and ends at °C.
2. The central nervous system in human consists of two main parts which are and
3. The main idea to make a thermometer is the change in of the liquid by changing
4. During photosynthesis process in green plants gas is produced, while burning of organic materials produces gas.
5. From measuring devices of mass is, whereas weight is measured by using



2
Part**[B] Give reasons for each of the following :**

1. Aluminium and stainless steel are used in making cooking pots.
.....
2. Nitrogen is used to store petroleum and some flammable materials.
.....
3. Increased ratio of carbon dioxide gas in the atmosphere in recent years.
.....

2 [A] Write the scientific term :

1. A gas exists in the atmosphere that protects Earth from harmful radiation coming from the Sun. (.....)
2. An instrument used for measuring the temperature of liquids. (.....)
3. The skeleton which includes the upper and lower limbs. (.....)
4. A form of energy transfers from an object to another if they differ in temperature. (.....)
5. A gas combines with oxygen to produce a flame whose temperature is sufficient to melt metals. (.....)

[B] An object whose mass on Earth equals 30 kg. Calculate :

1. Its weight on Earth :
2. Its weight on the moon :
3. Its mass on the moon :

3 [A] Choose the correct answer :

1. Addiction passively affects the nervous system causing
a. muscle stress. b. sprains. c. sleepless.
2. The gas which is used in making dry ice is gas.
a. carbon dioxide b. oxygen c. nitrogen
3. The weight of a person in a balloon at certain height from Earth's surface equals 70 Newton so, the weight of the person on Earth's surface is
a. 69 Newton. b. 70 Newton. c. 71 Newton.
4. All of the following are properties of mercury as a thermometrical substance except
a. good conductor of heat.
b. give limited extent to measure temperature.
c. not adhere to the walls of capillary tube.

5. Magnesium ribbon keeps burning inside a cylinder full of carbon dioxide gas forming
- a. magnesium oxide and coal. b. magnesium oxide and oxygen.
c. magnesium oxide and carbon dioxide.

[B] What would happen in the following cases ?

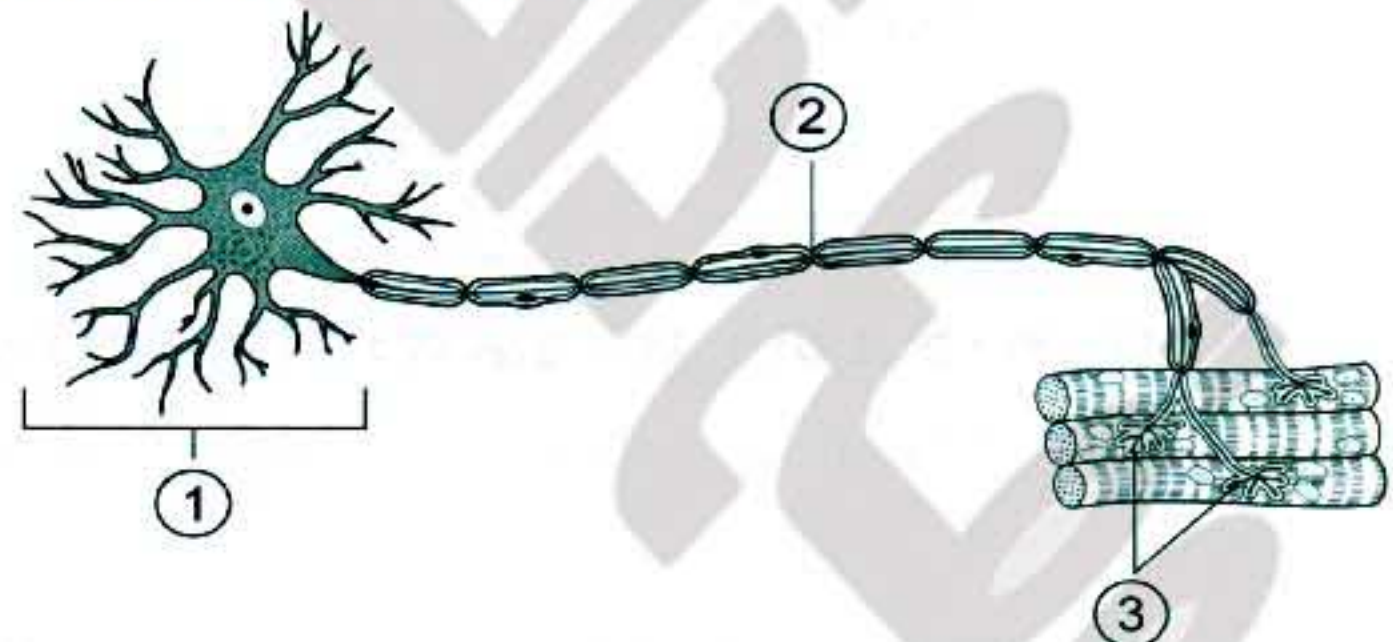
1. The mercury bulb of medical thermometer is broken and mercury is spilled inside the mouth of the person using it.
.....
2. The hand suddenly touches a hot object.
.....
3. Not leaving spaces between railway bars.
.....

4 [A] Correct the underlined words in the following :

1. Medulla oblongata maintains the body balance during motion. (.....)
2. Carbon dioxide gas is used in filling car tires. (.....)
3. Oxygen molecule consists of three oxygen atoms. (.....)
4. Aluminium conducts heat faster than copper. (.....)
5. Carbon dioxide gas reacts with clear limewater forming white precipitate of calcium hydroxide which is insoluble in water. (.....)

[B] Look at the opposite figure, then label the numbers.

- ①
②
③



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8

Dakahlia Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following statements :

1. The device which is used to measure the temperature is
2. The central nervous system is composed of and



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3. Preparation of oxygen in the laboratory from with manganese dioxide.
4. A body mass on the Earth's surface is 5 kg., the same body mass on the moon's surface is
5. We must avoid jumping from high places to avoid in our locomotory system.

[B] Mention one function or importance of each of the following :

1. Celsius thermometer.
.....
2. Dry ice.
.....
3. Hot copper in nitrogen preparation experiment.
.....

2 [A] Write the scientific term of each of the following :

1. The amount of matter that the body contains. (.....)
2. Types of muscles that work automatically and we can't control there movement. (.....)
3. A gas used in making soft drinks. (.....)
4. A part of brain which regulates the involuntary processes of the body. (.....)
5. A gas produced from green plants during photosynthesis process. (.....)

[B] Give reasons for each of the following :

1. Aluminium is used in making cooking pots.
.....
2. Presence of cartilages between the vertebrae of the backbone.
.....
3. Nitrogen is recently used in filling car tiers.
.....

3 [A] Choose the correct answer :

1. From the materials which are good conductors of heat
a. plastic. b. air. c. wood. d. mercury.

2. A part of the nervous system responsible for reflex actions
 - a. cerebrum.
 - b. cerebellum.
 - c. medulla oblongata.
 - d. spinal cord.
3. From the properties of oxygen, it is soluble in water.
 - a. scarcely
 - b. rapidly
 - c. non
 - d. (a) , (b) and (c)
4. If an object's weight on the Earth's surface is (6) Newton, its weight on the moon's surface will be
 - a. 6 Newton.
 - b. 60 Newton.
 - c. $\frac{1}{6}$ Newton.
 - d. 1 Newton.
5. Carbon dioxide turbids the clear limewater due to formation of
 - a. calcium oxide.
 - b. calcium carbonate.
 - c. calcium hydroxide.
 - d. carbon.

[B] What would happen in the following cases ... ?

1. The reaction between nitrogen with oxygen by lightening.
.....
2. The constriction is not found in the capillary tube of the medical thermometer.
.....
3. All human bones are fixed with each other.
.....

4 [A] Put (x) or (✓) in front of the each of the following statements :

1. The weight is the force with which a body is attracted to the Earth. ()
2. Carbon dioxide molecule consists of one oxygen atom linked with two carbon atoms. ()
3. The medical thermometer scale starts from 32°C to 45°C. ()
4. Ozone gas consists of three oxygen atoms. ()
5. One kilogram equals 1000 grams which equal one liter of distilled water. ()
6. Humerus bone and forearm bones are from parts of lower limbs. ()

[B] Write two ways only to maintain our nervous system.

1.
2.

Answer the following questions :

1 [A] Choose the correct answer :

1. The Newton is nearly equals the weight of a body its mass is gm.
a. 10 b. 100 c. 1000 d. 10000
2. From the immovable joints
a. shoulder joint. b. wrist joint. c. elbow joint. d. skull joints.
3. When oxygen unites rapidly with elements and produces heat and light, this union is called
a. oxidation. b. burning. c. neutralization. d. decomposition.
4. Determine which of the following materials is faster in conducting heat ?
.....
a. Aluminium. b. Iron. c. Copper. d. Glass.
5. The gas contributes in the composition of soil fertilizers.
a. oxygen b. carbon dioxide c. nitrogen d. chlorine

[B] A piece of rock is placed in a pan of double pans balance, the sum of masses which are placed in the other pan is 300 gm. to make balance.

Answer the following :

1. What is the mass of the piece of rock ?
.....
2. What is the weight of the piece of rock on the Earth's surface?
.....
3. What is the effect of changing the place on both mass and weight of the rock piece ?
.....
.....

2 [A] Put (✓) or (x) :

1. Celsius thermometer is used in measuring the human body temperature. ()
2. The cerebellum is responsible for keeping the body balance during movement. ()
3. The cooking pots and kettles are made up of plastic. ()

4. Mercury is used in thermometers because it is a regular expanding material. ()
5. Mass is the force of Earth's gravity to a body. ()
6. Bones of the lower limbs are connected to the shoulder bones. ()

[B] What happens when ... ?

1. Putting a glowing magnesium ribbon in a jar containing carbon dioxide.

.....

.....

2. Your hand suddenly touches a hot body.

.....

3 [A] Write the scientific term of each of the following :

1. A type of muscles that work automatically and you cannot control. (.....)
2. Materials that do not let heat flow through. (.....)
3. A flame used in cutting and welding metals. (.....)
4. The main control center in the human body. (.....)

[B] What is the role of each of the following :

1. Yeast in making bread.

.....

2. The ozone layer in the atmosphere.

.....

[C] Look at the opposite figure, then answer :

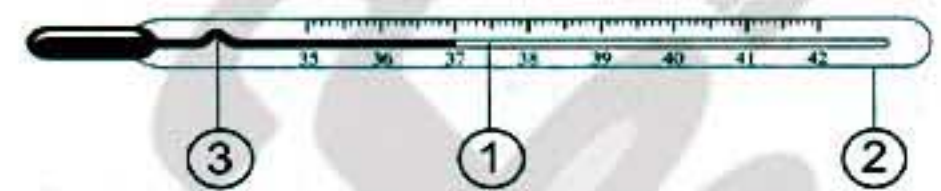
1. What is the name of this figure ?

2. Write what is indicated by numbers :

①

②

③

**4 [A] Complete the following statements with suitable words :**

1. The mass is measured by scale, while the weight is measured by scale.
2. The oxygen gas is produced plentifully from during process.
3. Heat is a form of that transfers from the temperature object to the low temperature object.

2
Part

4. Muscles are fixed to bones by, while are found between vertebrae of backbone to prevent their friction.
5. The peripheral nervous system consists of of cranial nerves and of spinal nerves.

[B] Give reasons for each of the following :

1. Heavy woolen clothes are used in winter.
.....
2. The bridges' pillars made of iron are isolated from moisture with paints.
.....
3. Reducing the intake of stimulating substances such as coffee.
.....

10

Suez Governorate

The Educational Directorate

Answer the following questions :**1 Complete the following sentences :**

1. All metals are conductors of heat.
2. Mass is constant and does not change with the change of
3. The heat is a form of the forms of
4. The percentage of carbon dioxide gas in atmosphere equals it has the symbol of
5. The brain consists of cerebrum, and
6. The backbone consists of vertebrae.

2 [A] Put (✓) or (x) :

1. The digital balance is used in measuring weight. ()
2. Copper is considered from bad conductors of heat. ()
3. Celsius thermometer is used to measure human temperature. ()
4. Nitrogen is called azote and its meaning gas of life. ()
5. The spinal cord is responsible for reflex actions in human body. ()
6. The knee joint is an immovable joints. ()

[B] Give reason for the following statements :

1. The decrease of green areas harm the environment.
.....

2. The cooking pots are made of aluminium, while its handles are made of plastic.
-
-

3 [A] Choose the correct answer from the following :-

- The gas which is used with acetylene in welding metals is gas.
a. oxygen b. nitrogen c. hydrogen d. carbon dioxide
- The weight of the body on Earth's surface is 6 Newton, so its weight on moon's surface equals
a. 1 kg. b. 1 Newton c. 6 kg. d. 6 Newton
- The thoracic cage in the man consists of pairs of ribs.
a. 10 b. 11 c. 12 d. 13
- The part which is responsible for keeping human body balance is
a. two cerebral hemispheres. b. cerebellum.
c. medulla oblongata. d. spinal cord.
- Hydrogen peroxide decomposes in presence of manganese dioxide to
a. oxygen and hydrogen. b. oxygen and water.
c. hydrogen and water. d. hydrogen and manganese.
- Oxygen is present in the atmosphere in gas state in form of molecules its structure
a. O b. O₂ c. O₃ d. O₄

[B] A body its mass is 10 kg. Calculate its weight of an earth's surface.

.....

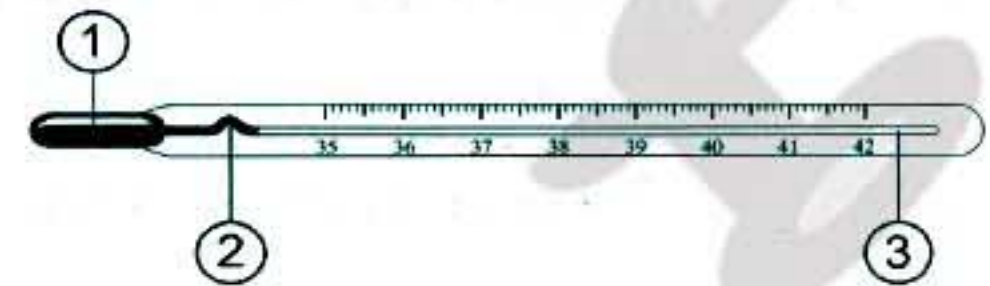
.....

4 [A] Look at the opposite figure, then answer :

1. Write the name of figure.
-

2. Label the figure :

- ①
②
③



[B] Correct the underlined words :

1. Different metals transfer heat by the same rate. (.....)
2. Nitrogen gas is used in extinguishing fires. (.....)
3. The molecule of ozone gas consists of four oxygen atoms. (.....)
4. Cartilages link bones with muscles. (.....)

11**Port Said Governorate**

The Educational Directorate

Answer the following questions :**1 [A] Complete the following statements :**

1. The force of Earth's attraction to a body is called and is measured in a unit called
2. Plastic is a conductor of heat and is used in making
3. During the preparation of gas, hot copper combines with the found in the air.
4. The medical thermometer scale starts from degree Celsius until 42 degree Celsius and every degree is divided into
5. The human axial skeleton consists of, ribcage and
6. gas turbids limewater because of the formation of which doesn't dissolve in water.

[B] Answer the following question :

Which of the following two thermometers has a constriction :
medical or Celsius thermometer and why it has this constriction ?

.....
.....

2 [A] Correct the underlined words :

1. Water is a regular expanding material. (.....)
2. Nitrogen gas protects the Earth from harmful radiations. (.....)
3. The operation of thermometer depends on the change of the density of the liquid inside with the change in temperature. (.....)
4. In the human nervous system, medulla oblongata is responsible for receiving nerve impulses from sense organs and sending responses to these impulses. (.....)

[B] If the weight of a certain body on Earth's surface is 300 Newton.
Calculate its :

1. Mass.

2. Weight on Moon's surface.

[C] Explain each of the following :

1. Pungent odour evolves as a result of adding water to the product of burning magnesium in nitrogen.

2. There are cartilages between vertebrae of the backbone.

3 [A] Choose the correct answer :

1. Nitrogen is used in making

a. dry ice.

b. fertilizers.

c. soft drinks.

2. The weight of a human in a balloon away from the Earth's surface will not be equal to his weight on Earth's surface because of the in the effect of Earth's gravitational force as we go away from Earth's surface.

a. decrease

b. stability

c. increase

3. The muscles of the are voluntary muscles.

a. heart

b. urinary bladder

c. trunk

4. One of the properties of carbon dioxide is being

a. heavier than air.

b. lighter than air.

c. scarcely soluble in water.

[B] Compare between cranial nerves and spinal nerves, in terms of :

Points of comparison	Cranial nerves	Spinal nerves
1. The place where they emerge from :
2. Their numbers :

[C] What would happen in each of the following cases ? And why ?

1. The mass of cleansing wire after burning.

2. Making the handle of a kettle from copper.

.....

.....

4 [A] Write the scientific term of each of the following :

1. A gas is molecule that consists of two atoms of oxygen and one atom of carbon. (.....)
2. An indicator that helps us to express the degree of hotness of coldness of a body. (.....)
3. The location where two bones meet together in the human body. (.....)
4. A gas prepared by using hydrogen peroxide. (.....)

[B] Mention one function of :

The balance scale :

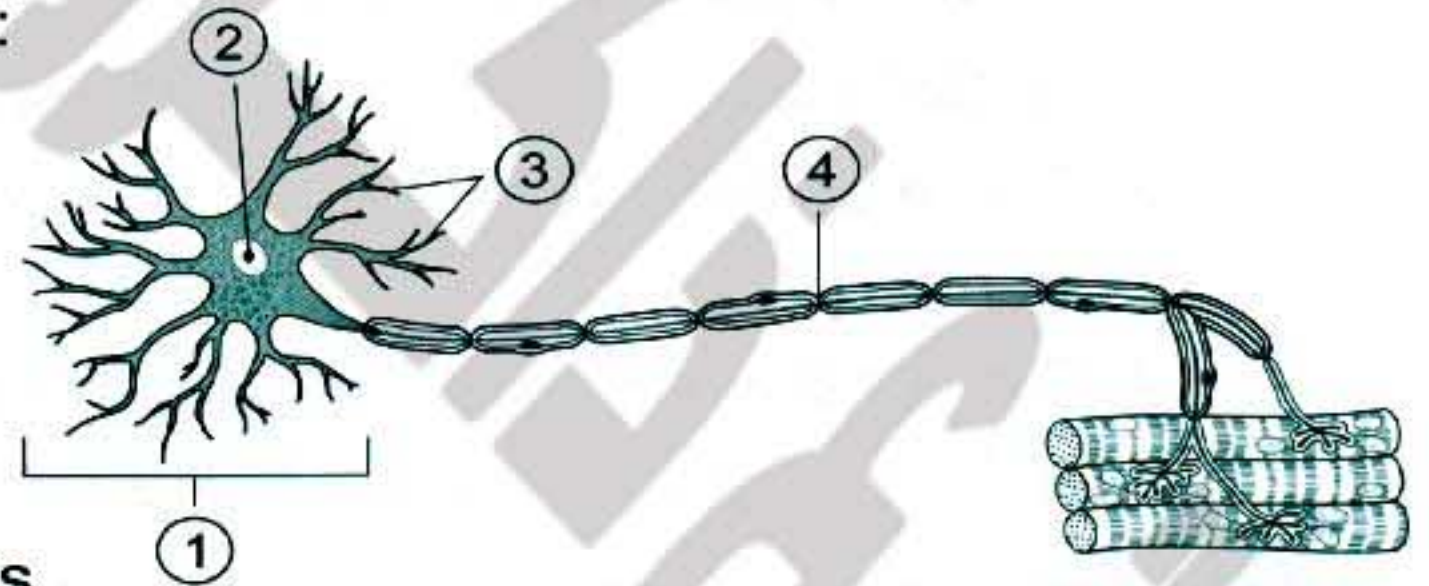
.....

.....

[C] Examine the opposite figure , then answer the following questions :

1. Write the labels on the drawing :

- ①
- ②
- ③
- ④



2. The opposite drawing represents

.....

Answer the following questions :

1 [A] Complete the following statements :

1. The is used in measuring the temperature of liquids, whereas the is used in measuring the temperature of the human body.
2. Water consists of united of one atom of with two atoms.

3. The human skeletal system consists of and
4. Mass is measured by using and the measurement unit of the weight is

[B] Correct the following statements :

1. The skull joints are from slightly movable joints.
.....
2. When the mass of an object on Earth's surface equals 6 kilogram, so its weight on moon's surface is 60 newton.
.....
3. Aluminium conducts heat faster than copper and iron.
.....
4. The atmosphere protects the Earth by absorbing the gases coming from outer space.
.....

2 [A] Choose the correct answer :

1. From bad conductors of heat are
a. iron and aluminium b. copper and glass
c. glass and wood d. aluminium and copper
2. The scientist who discovers the nitrogen gas is
a. Anders Celsius b. Joseph priestley
c. Daniel Rutherford d. Antoine Lavoisier
3. All the following from the components of central nervous system except
a. spinal nerves. b. two cerebral hemispheres.
c. spinal cord. d. medulla oblongata.
4. When the exhaled air passes through clear limewater it turbids due to the formation of
a. calcium carbonate. b. calcium oxide.
c. calcium hydroxide. d. calcium sulphate.
5. The measuring device of the weight is
a. sensitive scale b. two arms scale
c. the spring scale d. digital scale
6. fix muscles with bones.
a. Tendons b. Joints
c. Muscular fibers d. (a) and (b).



[B] What happens in the following cases ?

1. The over use of stimulation substances.

.....

.....

2. The percentage of carbon dioxide gas increases in the atmospheric air.

.....

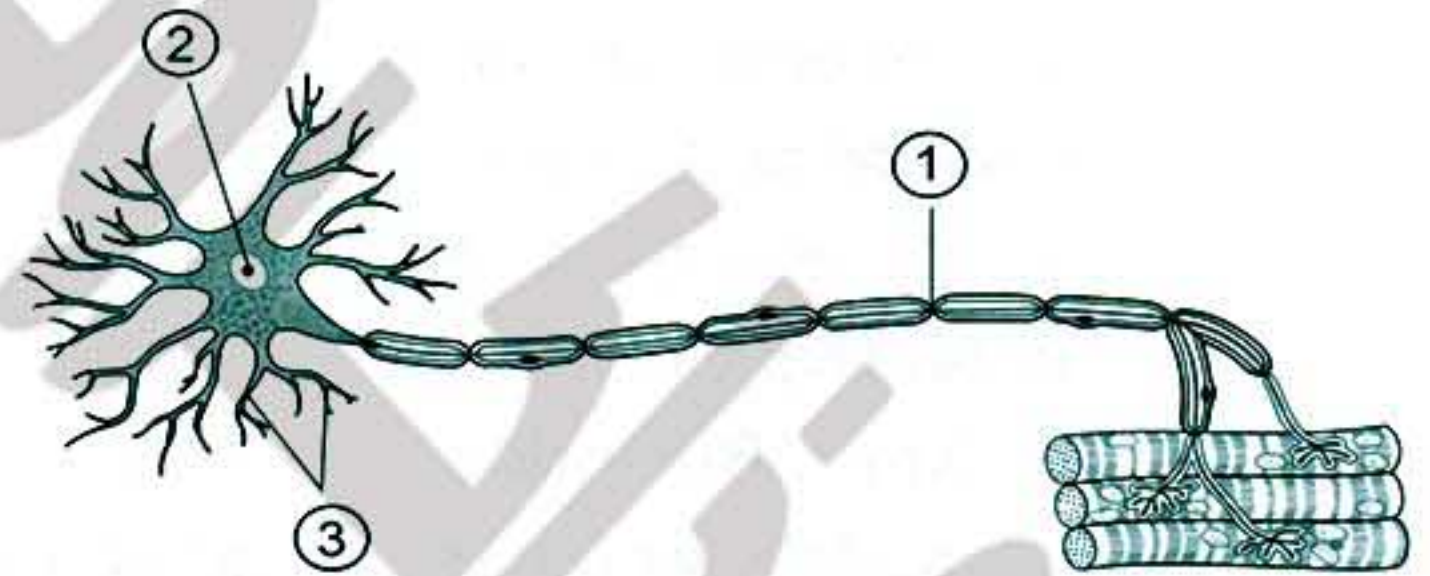
.....

3 [A] Write the scientific term of the following statements :

1. The amount of matter that the body contains. (.....)
2. Spontaneous response of the body to different stimuli. (.....)
3. A gas that is prepared from hydrogen peroxide. (.....)
4. Type of muscles act spontaneously and cannot be controlled. (.....)
5. It is the degree of hotness or coldness of a body. (.....)
6. A flame used in cutting and welding metals. (.....)

[B] Look at the opposite figure, then answer the questions :

1. This figure indicates the structure of
2. Label the points as indicated by the figures :



- ①
- ②
- ③

4 [A] Give reasons for the following statements :

1. The handles of cooking pots are made of wood or plastic, while the cooking pots are made of aluminium.

.....

.....

2. During preparation of nitrogen gas in laboratory, air is passed in potassium hydroxide solution and over a hot copper.

.....

.....

3. The weight of the body differs according to the planet where the object exists.

[B] Mention one function of :

1. The constriction above the bulb in the medical thermometer.

2. The two cerebral hemispheres.

13

Kafr El-Sheikh Governorate

The Educational Directorate

Answer the following questions :

1 [A] Write a scientific term :

1. Gas increase in its percentage in air leads to the suffocation of living organisms. (.....)

2. The amount of matter in an object. (.....)

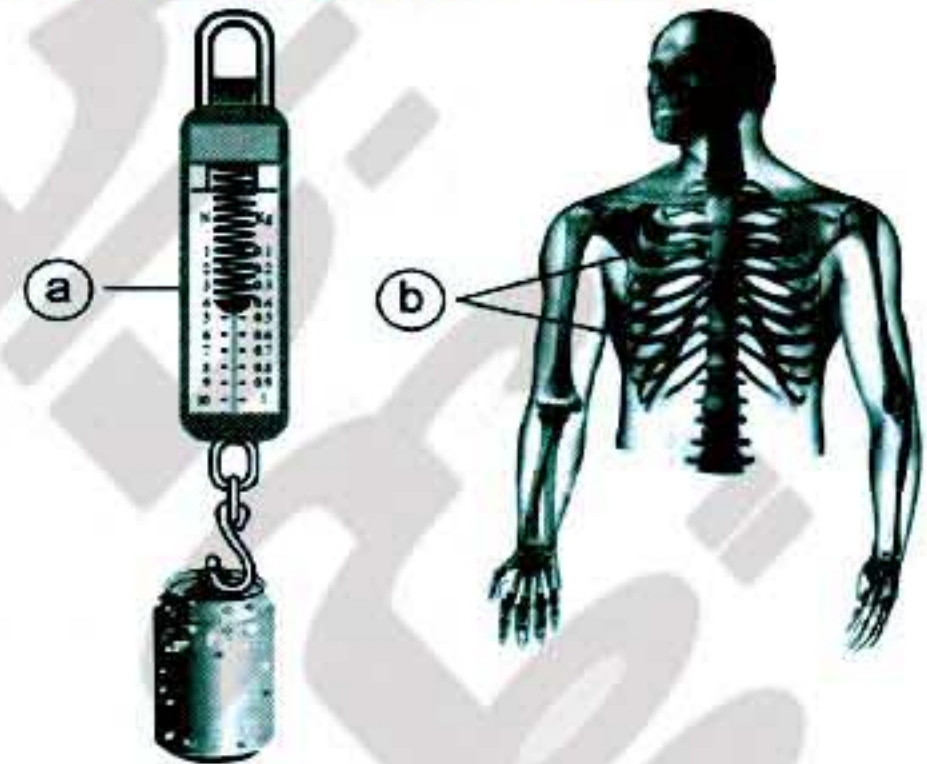
3. It consists of the bones of upper and lower limbs. (.....)

4. It is the degree of hotness or coldness of a body. (.....)

[B] Look at the following figures, then answer the following questions :

1. Figure (a) represents the
which is used to measure

2. Figure (b) represents the
which its function is



[C] Mention :

1. The importance of manganese dioxide in the preparation of oxygen.

2. The function of the cerebellum.

2 [A] Choose the correct answer :

1. Limewater is

a. calcium carbonate.

c. calcium hydroxide.

b. calcium oxide.

d. calcium sulphate.

2. From reflex actions
- heartbeats.
 - eating when hungry.
 - blinking when something gets close to the eye.
 - all the previous.
3. The main idea to make a thermometer is changing the of the liquid according to changing the temperature.
- volume
 - density
 - mass
 - weight
4. The Newton is nearly equals the weight of a body its mass is
- 10 g.
 - 100 g.
 - 1000 g.
 - 10000 g.

[B] Give reason for each of the following :

- Oxygen is collected by downward displacement of water.
.....
- The handles of cooking utensils are made of wood or plastics.
.....

[C] Compare between :

Points of Comparison	Immovable joints	Freely movable joints
Definition :
Example :

3 [A] Complete the following statements :

- Cerebral hemispheres is the largest part of the brain, it consists of two halves separated by and attached to each other through
- The main component in protein is which is known as
- The movement is generated by the ability of cells to contract and relax.
- The scale of medical thermometer starts from °C to °C.
- As the mass of the planet on which the object exists increases, the object's increases.

[B] Correct the underlined words :

- The used liquid in the medical thermometer is water. (.....)
- Ozone molecule is composed of two atoms of oxygen. (.....)

3. **Muscles** prevent the friction between vertebrae of backbone during movement. (.....)
4. Carbon dioxide is prepared in the laboratory from the reaction between hydrochloric acid and **copper sulphate**. (.....)

4 [A] Select in column (B) the appropriate in column (A) :

(A)	(B)
1. Potassium hydroxide solution	a. 12 pairs of nerves.
2. Nitrogen gas	b. It is used to absorb carbon dioxide when preparing nitrogen in the laboratory from the air.
3. Cranial nerves	c. It is used in filling car tires.
	d. Regulating heartbeats

1. 2. 3.

[B] Put (✓) in front of the correct statements and (✗) in front of the false ones :

1. Oxy-acetylene flame is used in cutting and welding metals. ()
2. The medulla oblongata delivers nerve messages from the body organs to the brain and vice versa. ()
3. The mass of materials decreases after combination with oxygen. ()

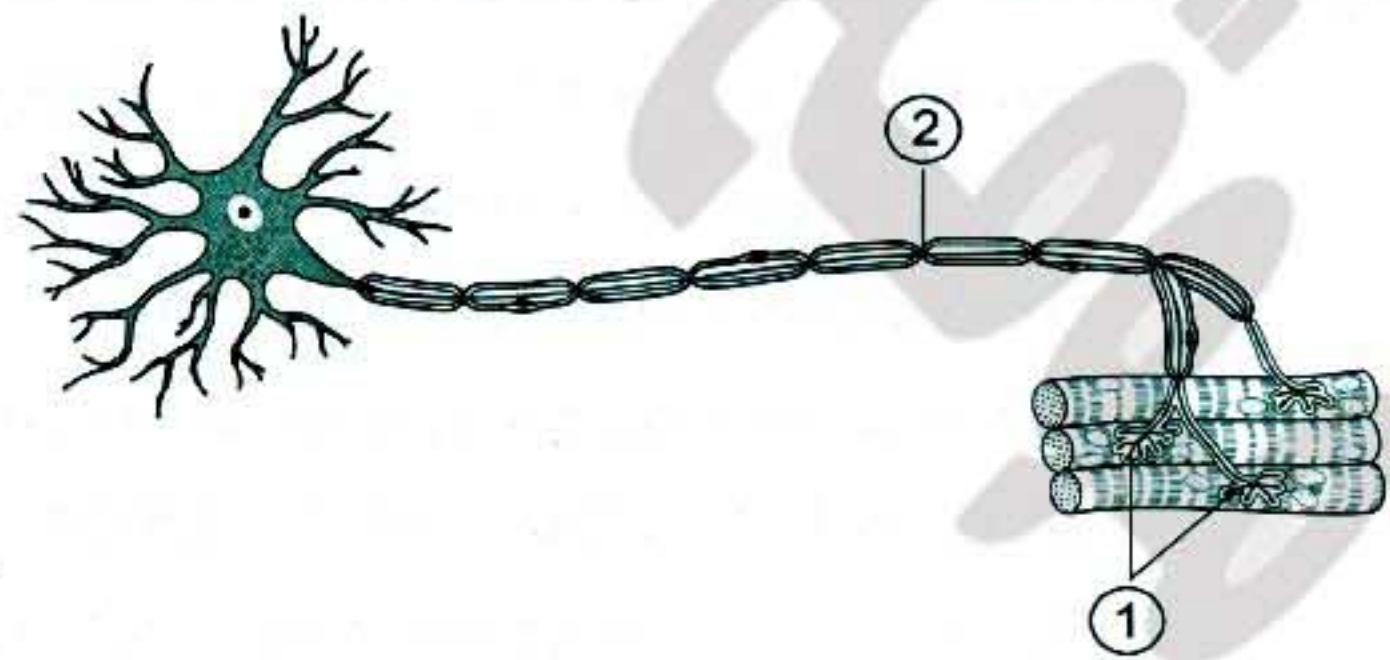
[C] Look at the figure in front of you and, then answer for the following :

1. What the name of the opposite figure ?
.....

2. Write the name of labels ① and ②

①

②



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Answer the following questions :

1 [A] Complete the following statements :

1. Oxygen gas is prepared from in presence of
2. The number of vertebrae of vertebral column in human body is and the number of spinal nerves is pairs.
3. is used in measuring temperature of different liquids, whereas is used in measuring the temperature of the human body.
4. The main center of the control in your body is and it's found inside a bony case called
5. The water is freezed at and boiled at

[B] Fill in the following table :

Points of Comparison	Mass	Weight
Definition :
Effect of different places :
Direction :

2 [A] Write the scientific term of each of the following statements :

1. An organ responsible for the reflex actions of the body. (.....)
2. A gas used as an inactive material in the tanks of liquefied explosives such as petroleum. (.....)
3. An indicator helps in expressing the state of the body from the point of hotness and coldness. (.....)
4. A gas can be prepared from adding dilute hydrochloric acid to calcium carbonate powder. (.....)
5. Long strips that fix muscles on bones. (.....)
6. Materials are used to make handles of cooking pots. (.....)

[B] Mention one function of :

1. Oxy-acetylene flame.

.....

2. The constriction in the capillary tube in the clinical thermometer.

.....

3 [A] Choose the correct answer :

1. When a glowing magnesium ribbon is placed in a jar containing carbon dioxide on the walls of the jar, the element formed is

a. magnesium. b. carbon. c. nitrogen.

2. Myelin sheath surrounds the

a. nerve cell axon. b. cerebellum. c. spinal cord.

3. Which of the following is faster in conducting heat ?

a. Aluminium. b. Iron. c. Copper.

4. Which of the following gasses have great percentage in atmospheric air ?

a. Oxygen. b. Nitrogen. c. Carbon dioxide.

5. The Newton is nearly equals weight of a body its mass gm.

a. 10 b. 100 c. 1000

[B] Give reasons for each the following statements :

1. Nitrogen is used in filling car tires.

.....

2. The necessary of eating healthy food rich in calcium.

.....

3. Clear limewater becomes turbid when carbon dioxide passes in it.

.....

4 [A] What would happen in each of the following cases ... ?

1. Adding the yeast to dough on making bread.

.....

.....

2. Nitrogen is not present in the atmospheric air.

.....

.....

3. A body moves away from the center of the Earth.

[B] Mention :

1. Why is mercury preferred in making a thermometers ? (4 reasons)

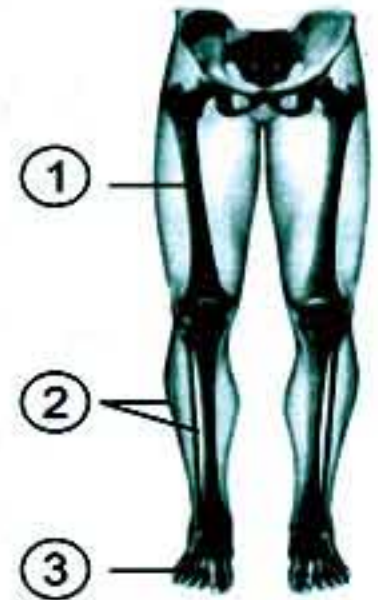
- ①
- ②
- ③
- ④

2. Three ways of maintaining the human nervous system .

- ①
- ②
- ③

3. The name of bones in lower limbs as on figure.

- ①
- ②
- ③



Answer the following questions :

1 [A] Complete the following statements :

1. The measuring unit of mass is, whereas the measuring unit of weight is
2. The main center of the control in your body is and it is found inside a bony box called
3. The oxygen gas is produced plentifully from during process.

[B] Mention one function of each of the following :

1. Ribcage.

.....

2. The oxy-acetylene flame.

.....

2 [A] Choose the correct answer :

- Which of the following is faster in conducting heat ?
a. Iron. b. Copper. c. Aluminium. d. Wood.
- Which of the following joints is limited movement ?
a. Shoulder. b. Wrist. c. Elbow. d. Thigh.
- If the body weight on earth's surface equals 6 Newton, its weight on moon's surface equals
a. 1 kgm. b. 1 Newton. c. 6 kgm. d. 6 Newton.
- Which of the following gases has great percentage in atmospheric air ?
a. Oxygen. b. Nitrogen. c. Ozone. d. Carbon dioxide.
- Which of the following is responsible for keeping the body balance ?
a. Medulla oblongata. b. Two cerebral hemispheres.
c. Spinal cord. d. Cerebellum.

[B] What would happen in the following cases ... ?

- A nail wetted with water is exposed several days to humid air.
.....
- The over take of stimulating substances.
.....
.....

3 [A] Correct the underlined words :

- The weight is constant and does not change from one place to another. (.....)
- The axon of the nerve cell is surrounded by gelatinous layer. (.....)
- The liquid used in the thermometer is the alcohol. (.....)
- Oxygen gas is prepared from hydrogen peroxide dissociates in the presence of carbon dioxide gas. (.....)
- From the brain (10) pairs of cranial nerves come out. (.....)

[B] Give reasons for the following :

- Nitrogen is collected by the displacement of water downward during its preparation in the laboratory.
.....
- In the clinical thermometer there is a constriction above mercury reservoir.
.....

4 [A] Write the scientific term of the following :

1. The attraction force of the Earth to the body. (.....)
2. A gas molecules consists of three atoms of oxygen. (.....)
3. The substances that do not allow heat to pass through. (.....)
4. A gas used in the storage of petroleum and some inflammable substances. (.....)
5. An organ responsible for the reflex actions of the body. (.....)

[B] Look at the opposite figure, then answer :

1. Write what represents each label on the figure :

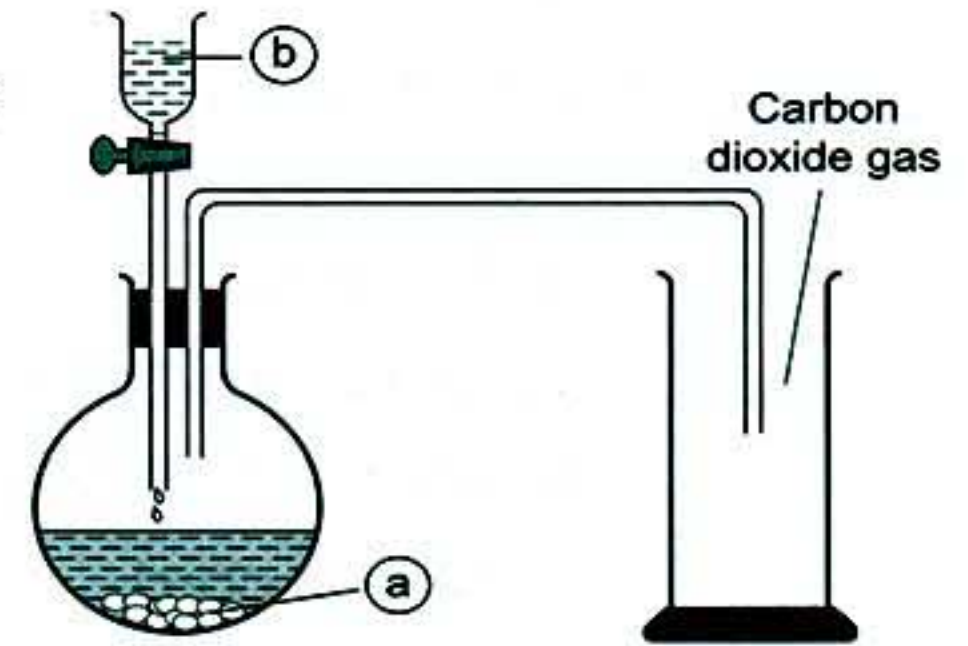
– Substance (a) :

– Liquid (b) :

2. Mention two uses of carbon dioxide gas :

①

②



Answer the following questions :

1 Complete the following statements :

1. Carbon dioxide gas converts into liquid by and
2. Balance scale is used to measure, whereas scale is used to measure weight.
3. Temperature is the degree of or of a body.
4. The neuron consists of two main parts which are and

2 Give reasons for :

1. Damage of medulla oblongata causes death.

.....

2. Yeast is added to dough on making bread.

.....

3. Gastrointestinal tract muscles are involuntary muscles.

.....

4. Nitrogen gas is used in filling car tires.

.....

3 [A] Choose the correct answer :

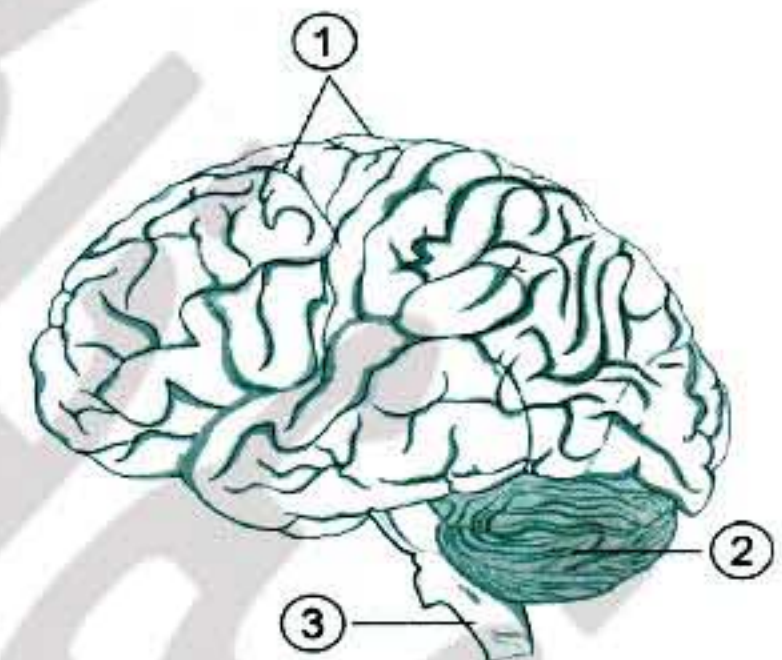
- From the substances which are bad conductors of heat
a. iron. b. aluminium. c. air. d. copper.
- If the body weight is 40 Newton, so its mass equals
a. 4 kg. b. 400 kg. c. 40 kg. d. 4000 kg.
- Joints which allow movements in one direction only are joints.
a. slightly movable b. immovable c. freely movable
- Mercury remains liquid between two degree temperature °C
a. - 39 : 357 b. 39 : - 357 c. zero : 100

[B] Write the scientific term of each of the following statements :

- Automatic response of the body to different stimuli. (.....)
- Long strips in the muscles fix it into bones. (.....)
- Liquid used in making thermometers. (.....)
- The force with which a body is attracted to the Earth and it always towards the center of the Earth. (.....)

4 [A] Examine the following figure and complete :

-
-
-
- The function of number. ② is
.....



[B] What are the differences between oxidation and burning ?

Points of Comparison	Oxidation	Burning
1. Definition :
2. Example :



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Answer the following questions :

1 Complete the following statements :

1. The mass is measured by using, while the measurement unit of weight is
2. Nitrogen represents, while oxygen represents of the volume of the atmosphere.
3. The number of spinal nerves is
4. A weight of an object can be measured by the
5. Oxygen is prepared from in presence of

2 Write the scientific term of each of the following statements :

1. The location of bones touch and allow moving. (.....)
2. Gas is produced according to the availability of green plants. (.....)
3. A tool used to measure the temperature of the human body. (.....)
4. The amount of matter in an object. (.....)

3 [A] What happens when ... ?

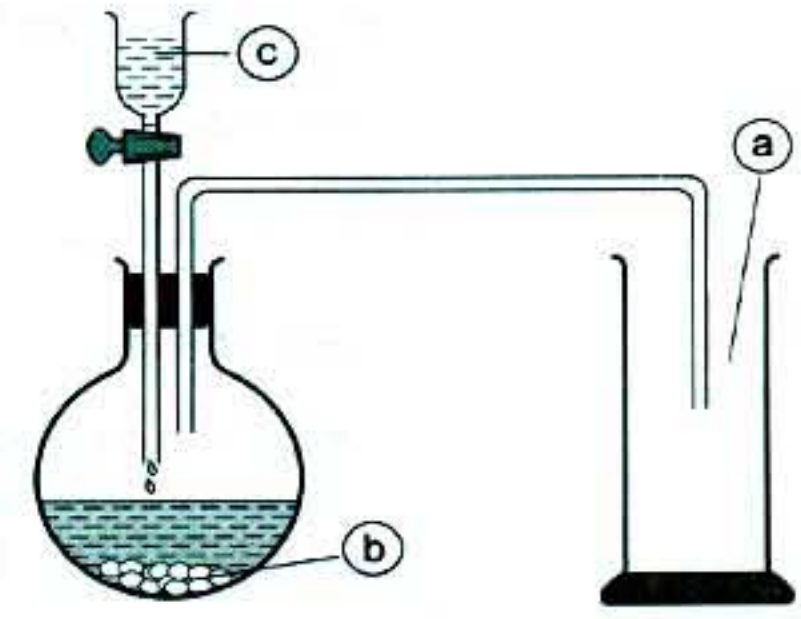
1. Insert a lighted magnesium ribbon in cylinder filled with nitrogen gas.
.....
2. When carbon dioxide gas is passed in limewater.
.....
.....

[B] Give reasons for each of the following :

1. Cooking pots are made of aluminium, while its handles are made of plastic or wood.
.....
.....
2. Ozone gas is very important in nature.
.....
.....
3. The infection of medulla oblongata lead to death.
.....
.....

4 [A] Notice the following figure and write down the labels on the figure :

1. Gas (a) is
2. Substance (b) is
3. Liquid (c) is



[B] If an object's mass = 30 kg. on Earth. Calculate :

1. Its weight on the Earth.
.....
2. Its weight on the Moon.
.....

[C] Put (✓) or (✗) in front of the following statements :

1. Heat transfers from a cold object to a hot object. ()
2. Nitrogen is used to make stainless steel. ()
3. Mercury is good conductor of heat. ()

18

Assiut Governorate

The Educational Directorate

Answer the following questions :

1 Complete the following statements :

1. The weight is measured in unit, while the mass is measured in unit.
2. gas is used in composing gunpowder, while gas is used in welding metals.
3. The main center of the control in your body is and it is found inside a bony case called
4. The heat is a form of the forms of
5. The number of cranial nerves in human body is pairs of nerves.

2 [A] Choose the correct answer :

1. The planet on which the body weight equals 6 times as its weight on the moon is
a. Earth. b. Mars. c. Jupiter.

2. From the examples of substances which are good conductor of heat
 - a. glass.
 - b. iron.
 - c. wood.
3. The nerve cell body consists of
 - a. nucleus.
 - b. cytoplasm and plasma membrane.
 - c. all the previous.
4. A gas can be prepared by using calcium carbonate powder and dilute hydrochloric acid is
 - a. oxygen.
 - b. hydrogen.
 - c. carbon dioxide.
5. The weight of a body its mass 10 kg. on Earth surface nearly equals
 - a. 10 Newton.
 - b. 100 Newton.
 - c. 1000 Newton.
6. Oxygen gas represents percentage of the Earth atmosphere.
 - a. 21%
 - b. 78%
 - c. 89%

[B] Mention one function of the following :

1. The joints.

.....

2. The ozone layer.

.....

3 [A] Write the scientific term of the following statements :

1. A gas is used in manufacture of soft drinks. (.....)
2. Ligaments ties muscles with bones. (.....)
3. The amount of matter that the body contains. (.....)
4. A tool used in measuring the temperature of liquid substances. (.....)

[B] Join from column (A) what is suitable from column (B) :

(A)	(B)
1. Copper	a. is a bad conductor of heat.
2. Plastic	b. conducts heat faster than aluminium.
3. Mercury	c. is a liquid used in sterilizing of thermometers before usage.
4. Alcohol	d. is used in manufacture of fertilizers.
	e. is a liquid used in manufacture of thermometers.

1.

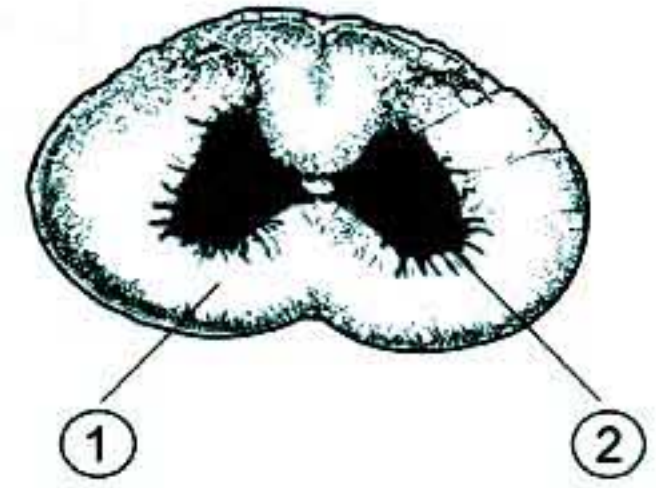
2.

3.

4.

4 [A] Notice the following figure for the spinal cord and write down the labels on the figure :

- ①
②



[B] Give reasons for the following :

1. Cooking utensils (pots) are made of aluminium.
.....
2. Nitrogen gas is used in filling cars and aeroplanes tires.
.....

[C] What would happen in the following cases ?

1. A nail from iron wetted with water is exposed several days to humid air.
.....
2. There is no a constriction above mercury reservoir (the bulb) in the medical thermometer.
.....

19 Sohag Governorate

The Educational Directorate

Answer the following questions :

1 [A] Choose the correct answer :

1. Which of the following is from the slightly movable joints ? joint.
a. Elbow b. Thigh c. Wrist d. Shoulder
2. When an object's mass on the moon equals 50 kg. then its mass on the Earth should equal kg.
a. 50 b. 100 c. 200 d. 500
3. When a lighted magnesium ribbon is placed in a jar containing carbon dioxide, on the wall of jar the element formed is
a. oxygen. b. nitrogen. c. carbon. d. magnesium.
4. All of the following are materials that conduct heat except
a. iron. b. copper. c. aluminium. d. plastic.
5. Nitrogen is used in manufacture of
a. fire extinguisher. b. soft drink. c. fertilizers. d. dry ice.

2
Part**[B] What would happen in the following cases ... ?**

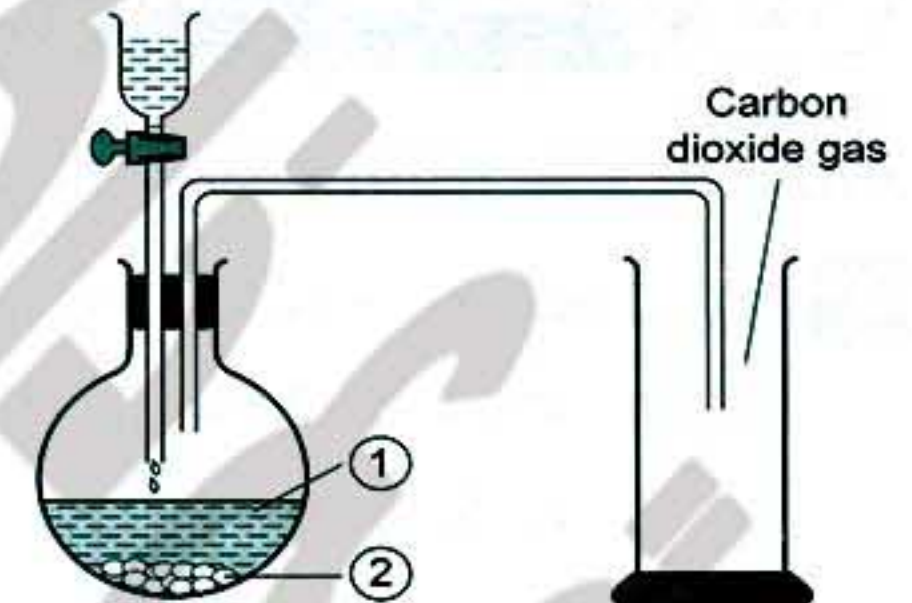
1. A nail wetted with water is exposed for a long period to humid air.
.....
2. The over intake of stimulating substances such as coffee and tea.
.....
3. There is no constriction above the bulb of mercury in the medical thermometer.
.....

2 [A] Write the scientific term of each of the following statements :

1. A chemical compound dissociates in the presence of manganese dioxide into water and oxygen. (.....)
2. A tool used for measuring the objects weight. (.....)
3. The automatic involuntary response of the body when it is exposed to an external stimuli. (.....)
4. Materials that let heat flow through. (.....)
5. A gas used in the storage of petroleum and some inflammable substances. (.....)

[B] Look at the opposite figure, then answer the questions :

1. Write what each number refers to on the figure :
– Liquid ① is
– Material ② is
2. How the gas is collected ? And why ?
.....
.....

**3 [A] Complete the following statements :**

1. It's necessary to eat healthy food rich in calcium and phosphorus to prevent diseases.
2. is the gas which is called azote that means "lifeless" because it does not help in burning.
3. The number of the spinal nerves is, where as the number of the cranial nerves is
4. The medical thermometer is used to, where as the celsius thermometer is used to

[B] An object whose mass on Earth is equal 12 kg. Calculate :

1. Its weight on the surface of the Earth.

2. Its weight on the surface of the moon.

4 [A] Give reasons for the following :

1. The heart and lungs are surrounded by ribcage.

2. Ozone layer has a great importance in the life of creatures on the Earth surface.

3. The weight of the body on Earth's surface differs from its weight on another planet.

4. Air is used in making insulating glass windows.

[B] Correct the underlined words :

1. An example for the involuntary muscles is the face muscles. (.....)

2. In respiration and combustion, carbon dioxide is consumed. (.....)

3. Iron is considered the fastest metal in conducting heat. (.....)

4. The centers of thinking and concentration lie in medulla oblongata. (.....)

20

Qena Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following statements :

1. Oxygen gas is prepared from in presence of

2. Mass is a constant amount and doesn't affect by changing

3. thermometer is used to measure the temperature of water.

4. The nervous system consists of two main systems which are and

[B] Mention one use (importance) for each of the following :

1. Oxy-acetylene flame.

2. Cartilages between vertebrae of the backbone.

2 [A] Put (✓) or (x) in front of the following statements :

1. Ozone gas consists of two oxygen atoms and symbolized by O_3 ()
2. Carbon dioxide gas is used in the manufacture of gunpowder. ()
3. The scale of medical thermometer starts from $35^\circ C$ to $42^\circ C$. ()
4. Nitrogen gas occupies 78% of the atmospheric air components. ()
5. In legumes, the nodular bacteria fix nitrogen on their roots. ()

[B] Give reasons for :

1. There is a constriction above the mercury bulb in the medical thermometer.
.....
2. Carbon dioxide gas is used in extinguishing fires.
.....
3. Damage of medulla oblongata leads to death.
.....

3 [A] Choose the correct answer :

1. The best metal to conduct heat is
a. aluminium. b. copper. c. iron.
2. Newton equals the weight of an object whose mass is grams.
a. 10 b. 100 c. 1000
3. The ribcage in the human body consists of of ribs.
a. 10 pairs b. 11 pairs c. 12 pairs
4. A gas used to fill some types of lamps is
a. oxygen. b. carbon dioxide. c. nitrogen.
5. A tool which is used to measure the weight is
a. spring scale. b. digital scale. c. two arm scales

[B] If the object's mass = 30 kg. on the Earth. Calculate :

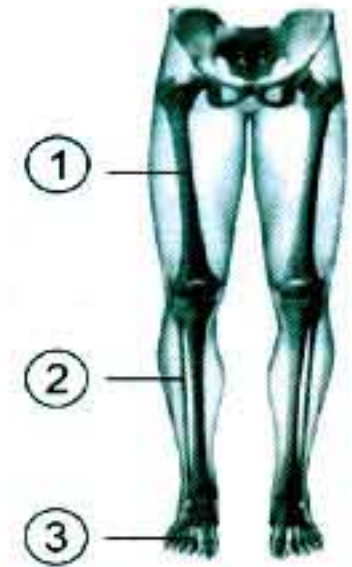
1. Its mass on the moon.
.....
.....
2. Its weight on the Earth.
.....
.....
3. Its weight on the moon.
.....
.....

4 [A] Write the scientific term of the following statements :

1. An organ which is responsible for the reflex action. (.....)
2. A form of energy that transfers from the higher temperature object to the lower temperature object. (.....)
3. The gas that turbids limewater. (.....)
4. Materials that let heat flow through. (.....)
5. The amount of matter in an object. (.....)

[B] Look at the opposite figure, then write what the numbers point to :

- ①
- ②
- ③



21

Luxor Governorate

The Educational Directorate

Answer the following questions :

1 Complete the following statements :

1. The graduation of clinical thermometer begins from °C and ends at°C.
2. consists of 33 vertebrae, with between them to prevent their friction during movement.
3. As the mass of the planet increases, its increases and the object's on its surface increases.
4. The main center of the control in your body is and it is found inside a bony box called

2 [A] Write the scientific term of each of the following :

1. Types of muscles act spontaneously and cannot be controlled. (.....)
2. A gas is used in making of stainless steel. (.....)
3. Part of the nervous system that is responsible for reflex actions. (.....)
4. A gas its molecule consists of three oxygen atoms. (.....)



5. The type of skeleton which includes the bones of upper and the lower limbs. (.....)
6. The liquid that is used in making of the Celsius thermometer. (.....)

[B] Give a reason for each of the following :

1. Oxygen gas is collected by displacing the water downwards during preparation in the laboratory.
.....
2. Damage of the medulla oblongata causes death.
.....

3 [A] Put (✓) or (x) in front of the following statements :

1. Mass is the force of the Earth's gravity on an object. ()
2. Handles of cooking pots are made of wood. ()
3. Nitrogen gas reacts easily with most other elements. ()
4. Oxygen gas does not burn and it does not help in burning. ()

[B] Choose the correct answer from the following :

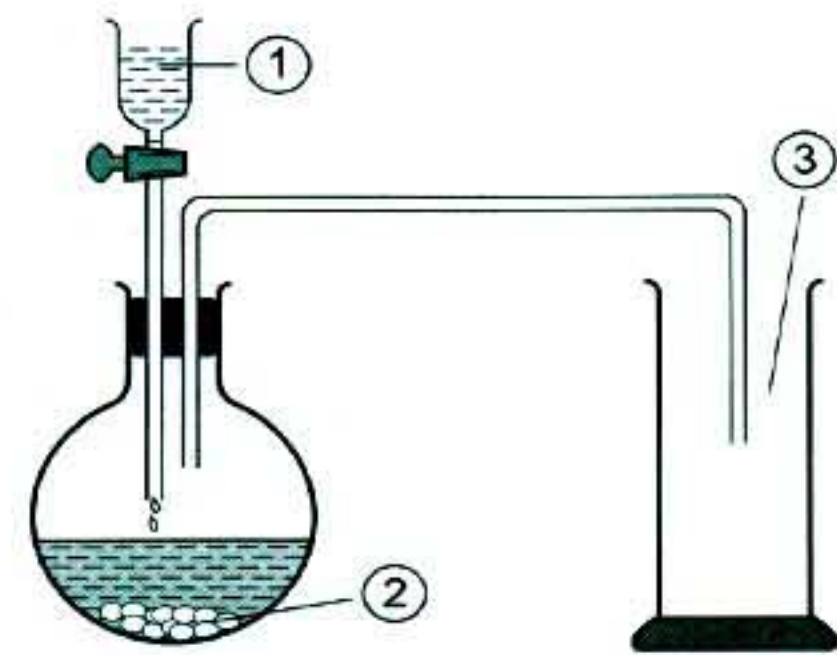
1. One of the examples of heat conductors is
a. plastic. b. paper. c. iron.
2. The joint which allows the movement in one direction only is joint.
a. immovable b. slightly movable c. freely movable
3. Nitrogen is used in manufacturing of
a. fertilizers. b. soft drinks. c. dry ice.
4. Hydrogen peroxide is used in the preparation of
a. oxygen. b. nitrogen. c. carbon dioxide.

4 [A] If an object's mass = 30 kg. on Earth's surface. Calculate :

1. Its mass on the moon's surface.
.....
2. The weight on the Earth's surface. [Note : start by writing the law]
The law is :
.....

[B] Look at the following figure, then answer :

1. This apparatus is used for the preparation of
2. Write what represents each label on the figure :
 ①
 ②
 ③



22

Aswan Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following statements :

1. The clinical thermometer is graduated from °C to °C.
2. In photosynthesis process, the plant absorbs gas and produce gas.
3. From the examples of substances which are bad conductors of heat and
4. The axial skeleton in the man consists of , and
5. Mass is a constant and is not affected by

[B] Give one importance for the following :

1. Oxy-acetylene flame.
.....
2. Cartilage.
.....

2 [A] Choose the correct answer from the following :

1. Your weight on Earth surface is 600 Newton, so your weight on moon surface is Newton.
 a. 6 b. 60 c. 100 d. 10
2. When a glowing magnesium ribbon is placed in a jar containing carbon dioxide, on the walls of the jar, the element formed is
 a. carbon. b. nitrogen. c. magnesium. d. oxygen.
3. Which of the following is faster in conducting heat ?
 a. Aluminium. b. Copper. c. Iron. d. Glass.

4. All the following from the properties of mercury as thermometrical substance except
- a. good conductor of heat.
 - b. its expansion is regular.
 - c. give limited extent to measure the temperature.
 - d. not adhere to the walls of capillary tube.
5. All the following are from the constituents of the brain except
- a. two cerebral hemispheres.
 - b. cerebellum.
 - c. medulla oblongata.
 - d. spinal cord.

[B] Give reasons for the following :

1. Ozone layer has great importance in the life on the Earth surface.
.....
2. The infection of modulla oblongata leads to death.

3 [A] Give scientific term of the following :

1. Materials that let heat flow through. (.....)
2. The amount of Earth gravity to the body. (.....)
3. Ligaments tie muscles with bones. (.....)
4. A gas used in ammonia industry. (.....)
5. The automatic response of the body when it is exposed to outer stimuli. (.....)

[B] What would happen in the following cases ... ?

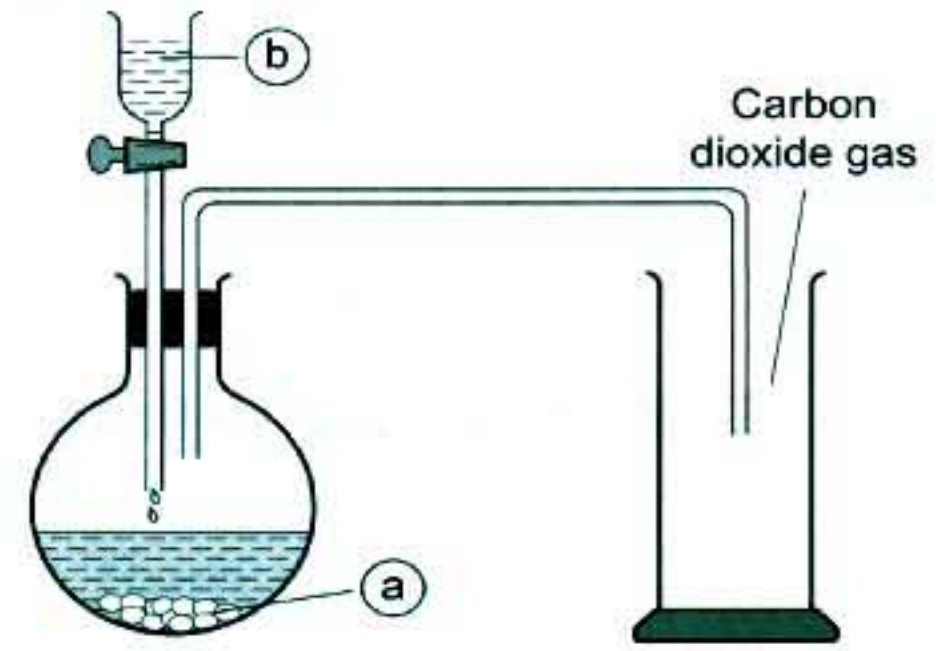
1. A nail wetted with water is exposed several days to humid air.
.....
2. A man is exposed to noise continuously.

4 [A] Put (✓) or (✗) in front of the following statements :

1. Celsius thermometer is used to measure the temperature of different liquids. ()
2. The digital balance is used in measuring weight. ()
3. Wrist joint is freely movable joint. ()
4. Heat transfers from hot body to cold body. ()
5. Oxygen gas occupies 78% of the atmospheric air components. ()

[B] Look at the opposite figure, then answer :

- Write what represents each label on figure :
 - Substance (a) is
 - Liquid (b) is
- Mention one use of the carbon dioxide gas :
.....
.....
.....



23

New Valley Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following sentences :

- Weight is the force by which to the Earth.
- is produced from plants during the photosynthesis process.
- thermometer is used for measuring the temperature of water.
- is used for manufacturing of soil fertilizers.

[B] Mention the importance of each of the following :

- Oxy-acetylene flame.
.....

- Spring scale.
.....

- Hot copper in preparing nitrogen from air.
.....

- Ozone layer.
.....

2 [A] Choose the correct answer :

- It is not from the upper limbs
a. humerus. b. forearm. c. shaft.
- When a mass of cleaning wire, which is made of iron gets burned in air with oxygen, its mass
a. increases. b. decreases. c. doesn't change.

3. Silver liquid metal

a. iron.

b. copper.

c. mercury.

4. The number of the spinal nerves in human is

a. 12 pairs.

b. 31 pairs.

c. 33 pairs.

[B] Mention the defectives of the addiction on the nervous system (only two) :

.....

.....

[C] Give reasons for the following :

1. Isolating the iron pillars of bridges from air by paints.

.....

2. Carbon dioxide is used in extinguishing fires.

.....

3 [A] Put (✓) in front of the right sentence and (x) in front of the wrong sentence :

1. Mass of object is stable amount at any place. ()

2. Oxygen cylinders are used during climbing mountains. ()

3. Carbon dioxide is collected by displacing water downward. ()

4. Iron and copper are considered conducting materials to heat. ()

5. During the reflex action, nerve impulses transmit through sensory nerve fiber to the spinal cord. ()

[B] What happened when ... ?

1. Passing carbon dioxide gas (CO_2) in calcium hydroxide (limewater).

.....

2. Never leaving spaces between railways.

.....

3. Adding little amount of water on a lighted magnesium ribbon in nitrogen.

.....

4 [A] Compare between the following :

Comparison	Voluntary muscles	Involuntary muscles
Definition :
Example :

[B] An object's weight on the Earth's surface is 300 Newton, calculate :

1. Its mass on the Earth.

.....

2. Its weight on the moon.

.....

.....

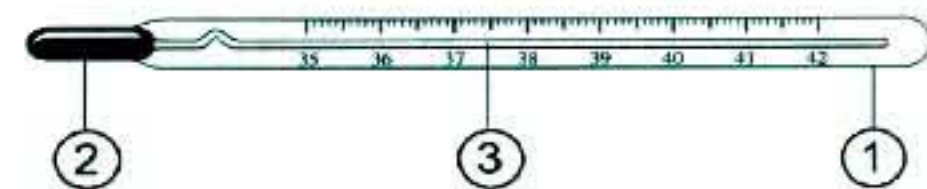
[C] Look at the medical thermometer in front of you, then answer :

1. Write what do numbers refer to :

①

②

③



2. Complete :

1. It is used in

2. The beginning of its scale is °C and end at °C

24 South Sinai Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following statements :

- The clinical thermometer is graduated from °C to °C.
- Hydrogen peroxide is used in preparation of gas.
- Nitrogen gas occupies% of atmospheric air.
- and are from bad conductors of heat.

[B] Give reason for the following :

1. The ribcage surrounds both the heart and the lungs.

.....

2. Oxygen gas is collected by down displacement of water.

.....

[C] Compare between mass and weight according to :

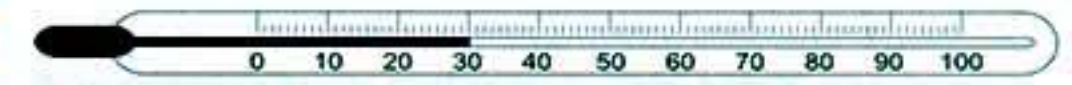
Points of comparison	Mass	Weight
Device :
Unit :

2 [A] Put (✓) or (x) in front of the following statements and correct the false ones :

1. Aluminium conducts heat faster than copper. ()
2. Wrist in hand from freely movable joints. ()
3. Oxygen gas is used in cooling. ()
4. The weight is constant and does not change with the change in place. ()

[B] Mention one use for the following :

1. Good conductors of heat.
2. Bad conductors of heat.

[C] Look at the following figure then answer :

1. What is the name of this device ?
2. Mention the use of this device.
3. What is the liquid which is used in making it ?

3 [A] Choose the correct answer :

1. The weight of a body on Earth's surface is 20 Newton, so its mass equals
a. 2 kg. b. 20 kg. c. 200 kg. d. 2000 kg.
2. In respiration and combustion, the gas is consumed.
a. nitrogen b. argon c. oxygen d. carbon dioxide
3. All the following are from good conductors of heat except
a. iron. b. glass. c. copper. d. aluminium.
4. Photosynthesis process in the plant depends on the presence of gas.
a. oxygen b. nitrogen c. ozone d. carbon dioxide

[B] What would happen in the following cases ... ?

1. When your hand suddenly touches a hot surface.

2. The percentage of carbon dioxide gas increases in the atmospheric air.

[C] Mention one function of each of the following :

1. The cartilages.

2. Nitrogen gas.

4 [A] Write the scientific term of each of the following statements :

1. The force with which a body is attracted to the Earth. (.....)
2. A gas which change clear limewater turbid. (.....)
3. An organ consists of 33 vertebrae. (.....)
4. A gas which is necessary for rusting process. (.....)

[B] Join from (A) what is suitable from column (B) :

(A)	(B)
1. Cranial nerves	a. responsible for involuntary processes.
2. Spinal nerves	b. responsible for voluntary processes.
3. Medulla oblongata	c. responsible for reflex action.
4. Spinal cord	d. are 31 pairs.
	e. are 12 pairs.

1. 2. 3. 4.

25 North Sinai Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following sentences :

1. The number of vertebrae of vertebral column is
2. The main center of the control in your body is
3. The thermometer is used in measuring the water temperature.
4. The weight of the body on Earth's surface increases as the increases.
5. The nitrogen gas occupies % of atmospheric air.
6. The gas which is used with acetylene in welding metals is gas.



[B] Give reason for the following :

1. Carbon dioxide gas is used in putting off fires.

.....

2. Aluminium is used in manufacturing of cooking pans.

.....

2 [A] Write the scientific term :

- The amount of matter that the body contains. (.....)
- A gas molecule consists of three atoms of oxygen. (.....)
- The location of bones touch and allow moving. (.....)
- A part of nervous system responsible for reflex action. (.....)
- A gas used in ammonia industry. (.....)
- The gas that turns limewater turbid. (.....)

[B] Define each of the following :

1. Temperature.

.....

2. The bad heat conductor substances.

.....

3 [A] Choose the correct answer :

- Hydrogen peroxide is used in preparation of
a. hydrogen. b. oxygen. c. nitrogen. d. carbon dioxide.
- From the example of freely movable joints
a. knee. b. thigh. c. elbow. d. all the previous.
- The centers of thinking and memory lie in
a. medulla oblongata. b. spinal cord.
c. cerebellum. d. two cerebral hemispheres.
- Your weight on Earth surface is 600 Newton, so your weight on moon surface is Newton.
a. 6 b. 60 c. 100 d. 10
- Nitrogen is used in manufacture of
a. fire extinguisher. b. fertilizers. c. soft drink. d. dry ice.
- The best metal in conducting heat is
a. aluminium. b. copper. c. iron. d. mercury.

[B] Mention one function of each of the following :

1. Spring scale.

.....

2. The ribcage.

.....

4 [A] Choose from column (B) what is suitable from column (A) :

(A)	(B)
1. Kilogram	a. is a liquid used in manufacture of thermometers.
2. Celsius degree	b. is the measuring unit of mass.
3. Mercury	c. keep the balance of human body during movement.
4. Wiegth	d. is the measuring unit of temperature.
5. The two arm balanced scale	e. is the force with which a body is attracted to the Earth.
6. Cerebellum	f. is a device of measurement of mass.

1. 2. 3. 4. 5. 6.

[B] What would happen in the following cases ... ?

1. An iron nail wetted by water is exposed several days to humid air.

.....

2. The over intake of tea and coffee.

.....

26 Red Sea Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following statements :

1. The mass is measured in unit.

2. The medical thermometer scale starts from degree to degree.

3. The number of cranial nerves is pairs.

4. The oxygen gas is consumed during and processes.

[B] Write one function of :

1. The spring scale.

.....

2. Spinal cord.

.....

2 [A] Choose the correct answer :

1. From the examples of widely movable joints

a. knee. b. thigh. c. elbow.

2. The gas used to fill some types of lamps is

a. oxygen. b. ozone. c. nitrogen.

3. Which is faster to conduct heat

a. aluminium. b. iron. c. copper.

4. The part which is responsible for keeping human body balance is

a. two cerebral hemispheres b. cerebellum
c. spinal cord

5. From the bad conductors of heat

a. iron and aluminum. b. copper and glass.
c. glass and wood.

6. The gas present in the air with 21% is

a. oxygen. b. nitrogen. c. water vapor.

[B] What happen when ... ?

1. Carbon dioxide gas percentage increases in the atmospheric air.

.....

2. The overuse of tea and coffee during exams.

.....

3 [A] If the mass of a body = 30 kg. on the Earth calculate :

1. Its weight on the Earth.

.....

2. Its weight on the moon.

.....

[B] Write the scientific term :

1. Matter which allow heat pass through.

(.....)

2. A gas used to extinguishing fire.

(.....)

3. A tool which is used for measuring liquids temperature. (.....)
4. A long strips fix muscles with bones. (.....)
5. The unit building of nervous system. (.....)
6. The main source to prepare nitrogen gas. (.....)

4 [A] Correct the underlined word in each of the following statements :

1. The liquid used in medical thermometer is alcohol. (.....)
2. Hydrogen gas is used in welding and cutting metal when combine with acetylene gas. (.....)
3. The vertebral column consists of 34 vertebra. (.....)
4. Carbon dioxide gas is needed for rusting process. (.....)
5. The ozone molecule consists of four oxygen atoms. (.....)
6. The handles of cooking pans made up of copper. (.....)

[B] Give reason for the following :

1. There is a constriction in the medical thermometer.
.....
2. Your weight on the moon less than that on the Earth.
.....

27 Matrouh Governorate

The Educational Directorate

Answer the following questions :

1 [A] Complete the following statements :

1. The heat is a form of the forms of
2. The is the measuring unit of mass, whereas the is the measuring unit of weight.
3. is the main control center in human body.
4. The oxygen percentage in the air is % and nitrogen percentage in the air is %

[B] Mention the function of each of the following :

1. The ribcage.
.....
2. Oxy-acetylene flame.
.....

2 [A] Choose the correct answer :

1. Different metals differ in conducting heat, the fastest is
a. iron. b. copper. c. aluminium. d. gold.
2. An object whose mass on Earth is equal to 15 kg. its mass on the moon is
a. 15 kg. b. 15 Newton. c. 150 kg. d. 150 Newton.
3. The gas used to fill some types of lamps is
a. oxygen. b. nitrogen. c. ozone. d. carbon dioxide.
4. is a bad conductor of heat.
a. Copper b. Wood c. Gold d. Mercury

[B] Give reason for the following :

1. Nitrogen is used in filling car tires.
.....
2. Ozone layer has a great importance to the human life and all living organisms.
.....
3. Mercury is preferred in making thermometers (two only).
.....
.....

3 [A] Write the scientific term :

1. A gas turbids the clear limewater. (.....)
2. A gas used in ammonia industry. (.....)
3. A human organ consists of an internal substance in the grey matter and it appears in the shape of letter (H) surrounded by the white matter. (.....)
4. Automatic response of the body to different stimuli. (.....)
5. The materials that let heat flow through. (.....)

[B] Calculate the mass of an object on the Earth if its weight on the Earth is equal 190 Newton.

.....

4 [A] Put (✓) or (✗) in front of the following statements, then correct the wrong ones :

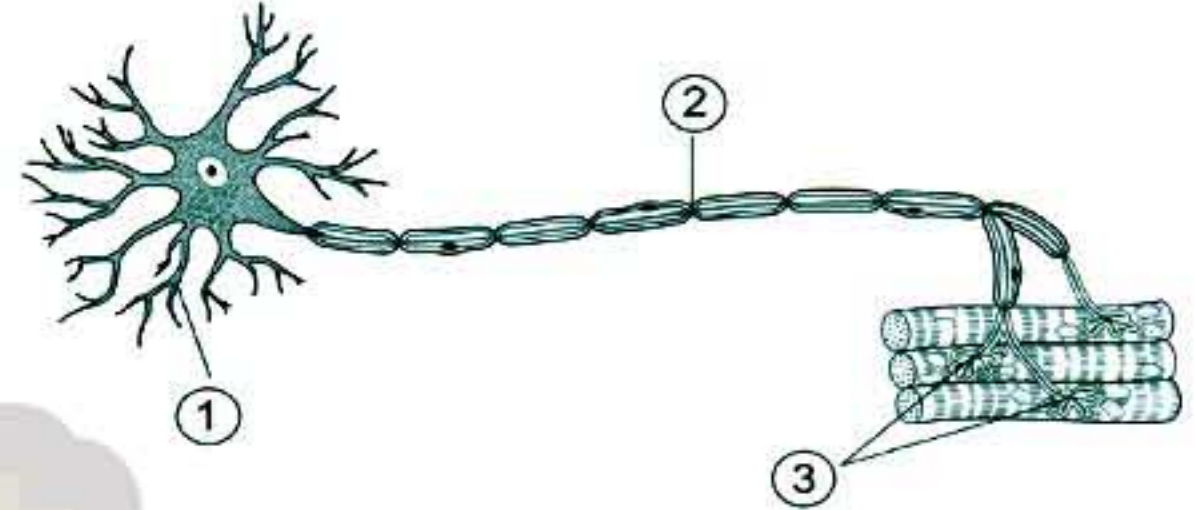
1. The number of cranial nerves is 31 pairs. ()
.....
2. The molecule of ozone gas consists of two oxygen atoms. ()
.....

3. The heat transfers from the cold object to the hot object. ()

4. Knee joint is considered ed as freely movable joint. ()

[B] From the opposite figure, complete :

- ①
 ②
 ③
 ④ The figure. is



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 RaNia SaYed



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Worksheets & Exams

School Exams on the First Term

2017/2018

(Guide Answers P. 38)

1 Cairo Governorate

(Guide Answers P. ??)

1 A) Choose the correct word between brackets:

- is a bad conductor of heat. (Aluminum – Iron – Air)
- Oxygen is produced during (combustion – photosynthesis – respiration)
- are long strips that fix muscles to bones. (Cartilages – Tendons – Ribs)
- results from the combustion of organic substances. (Carbon dioxide – Water vapor – Nitrogen)

B) Correct the underlined words in these statements by choosing the correct word from the following:

(Dust particles – Oxygen – Cerebellum – Cranial nerves)

- Spinal nerves are 12 pairs of nerves emerging from the brain.
- Cerebrum is maintaining the balance of the body during movement.
- Water vapor doesn't burn but helps in burning.
- Chemicals help in the condensing of the water vapor to form rains.

2 A) Choose from column (B) which suits column (A):

(A)	(B)
1. Oxygen cylinders	– is used in measuring the temperature of the human body
2. Sensitive two-arm scale	– releases carbon dioxide to extinguish fires
3. Fire extinguisher	– is used to measure the mass of gold
4. Medical thermometer	– are used in mechanical ventilation for patients

B) Write the scientific term:

- The form of energy that transfers from an object of high temperature to an object of low temperature. (.....)
- The layer in the outer atmosphere that protects the earth from the harmful radiation coming from the sun. (.....)
- The amount of matter in an object. (.....)
- The liquid metal that can be seen easily through the thermometer glass. (.....)

3 A) Give reason for each of the following by underlining the correct word:

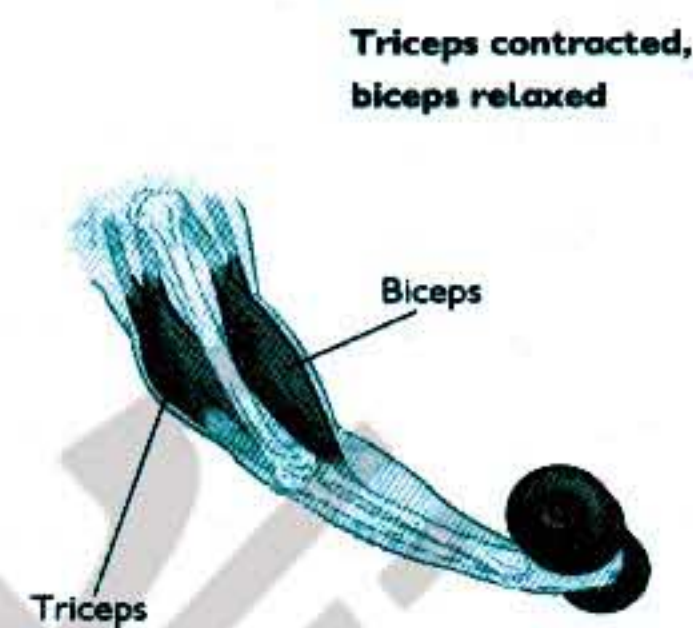
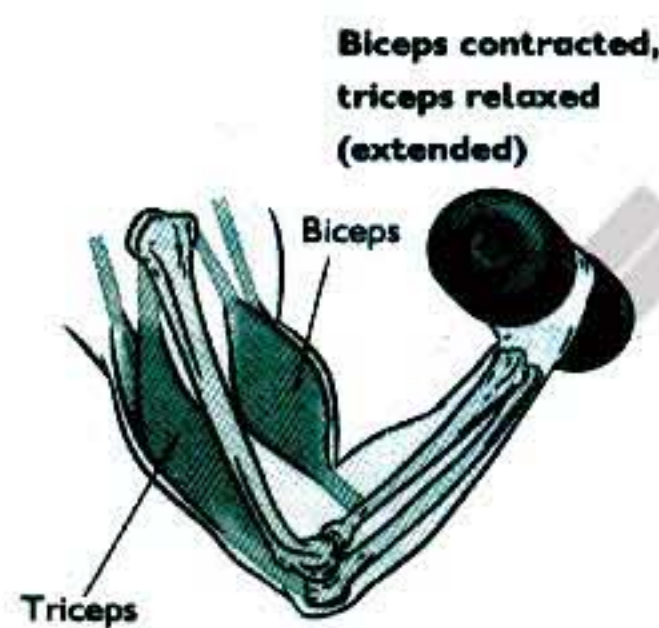
- Heavy blankets and wool clothes keep our bodies warm in winter because they are (bad – good) conductors of heat.

2. Atmosphere is attracted to the earth.
Because of (the rotation – the gravity) of the earth.
3. Withdrawal of your hand quickly on touching a hot surface.
Because (the spinal cord – the brain) makes a reflex action.

B) What will happen in the following cases?

1. Ironware such as the bridges pillars are not isolated by painting.
.....
2. Sitting long periods in front of the computer and television.
.....
3. Decreasing of green areas and forests removal.
.....

C) Complete the spaces to determine the type of the muscles seen in the figure, whether they are voluntary or involuntary:



1. The muscles seen in the figure are muscles.
2. One example of the involuntary muscles is

4 A) Put (✓) in front of the correct statement and (X) in front of the wrong one:

1. Weight of objects is stable and doesn't change from a place to another. ()
2. Carbon dioxide causes limewater to become turbid. ()
3. Nitrogen represents 21% of the volume of the atmosphere. ()
4. Different metals differ in conducting heat. ()

B) Complete the following statement:

1. Nitrogen are formed in the atmosphere during lightening and reaches soil with rain.
2. The central nervous system is composed of the and cord.

Worksheets & Exams

2 Cairo Governorate - Hadyek El Kobba Educational Directorate

(Guide Answers P. 38)

1 A) Complete the following:

1. The weight (Newton) equals (kilogram) x
2. The scale of the medical thermometer starts from and ends at
3. Mass is measured by using, whereas weight is measured by using
4. Oxygen gas is prepared by the decomposition of in the presence of
5. The number of spinal nerves is and the number of cranial nerves is

B) State one function of each of the following:

1. The rib cage.

2. Thermometers.

2 A) Write the scientific term of each of the following statements:

1. The structure by which muscles are fixed to the bones. (.....)
2. The liquid that is used in sterilizing the medical thermometer. (.....)
3. Materials that do not let heat flow through. (.....)
4. The force with which a body is attracted to the Earth. (.....)
5. The automatic response of the body to different stimuli. (.....)
6. The flame which is used for cutting and welding metals. (.....)

B) Give reasons for:

1. Cooking pots are made of aluminum.

2. Damage of medulla oblongata leads to death.

3. There is a constriction above the mercury bulb in the medical thermometer.

3 A) Correct the underlined parts in the following statements:

1. Shoulder joint is an immovable joint.
2. Carbon dioxide gas is necessary to form rust.
3. The ratio of nitrogen gas in the atmosphere is 21%.
4. The centers of thinking and memory lie in the spinal cord.
5. The highest degree in the Celsius thermometer represents the degree of water freezing.
6. Iron is used in making the handles of electric iron.

B) What happens if?

1. You blow in a jar contains clear limewater.

.....

.....

2. Sitting for long times in front of the computer.

.....

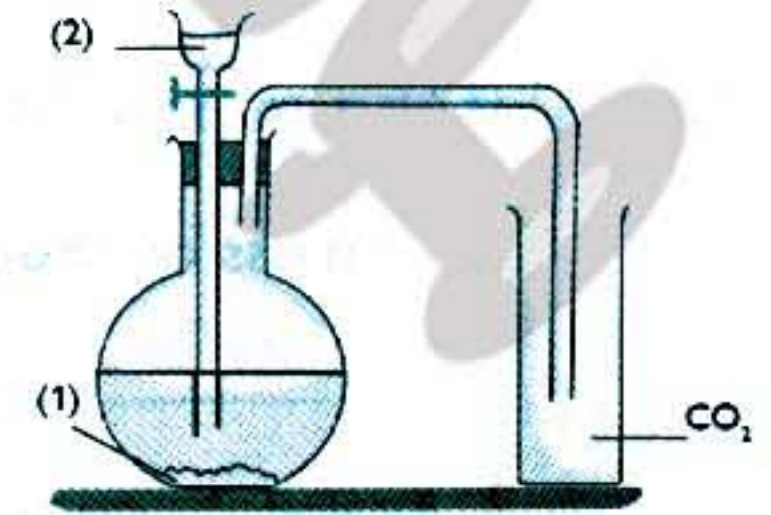
.....

4 A) Choose the correct answer:

1. Nitrogen gas is used in the manufacturing of
(fire extinguishers – soil fertilizers – soft drinks – dry ice)
2. molecule is composed of three oxygen atoms.
(Nitrogen – Ozone – Carbon dioxide)
3. An object whose weight is 20 Newton on Earth, so its mass equals
(10 kg – 2 kg – 200 kg – 20 kg)
4. The operation of thermometer depends on the idea of the change of with the change in temperature.
(gas volume – liquid volume – liquid density)

B) Look at the opposite figure, then answer:

1. Substance (1) is
2. Liquid (2) is
3. Mention two uses for the evolved carbon dioxide gas



Worksheets & Exams

3 Giza Governorate - Monshat El Qanater Directorate

(Guide Answers P. 39)

1 Complete the following:

1. Mass is a constant amount and doesn't affect by changing
2. Dendrites are connected with other neighboring neurons forming
3. thermometer is used to measure the temperature of the human body.
4. Oxygen gas is prepared from decomposition of in presence of
5. As the mass of a planet increases the of the planet increases and the of an object that exists on it increases.
6. Nitrogen is used in the manufacturing of which doesn't rust.

2 A) Give reasons for:

1. Clear limewater gets turbid if CO_2 gas passes through it.

.....

2. Damage of medulla oblongata leads to death.

.....

3. Mercury is preferred in making thermometer.

.....

B) Write the scientific term:

1. Flame is used in cutting and welding metals.

(.....)

2. Materials which allow heat flow through.

(.....)

3. The location at which bones meet each other.

(.....)

3 A) If the mass of an object on the earth surface is 60 kg, calculate:

1. its mass on the surface of the moon.

.....

2. its weight on the surface of the moon.

.....

B) Choose the correct answer:

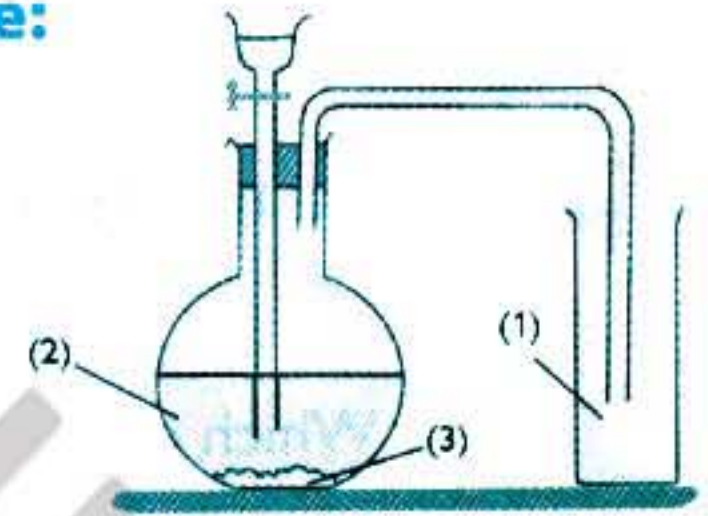
1. The organ which is responsible for keeping the balance of the human body is
(cerebellum – spinal cord – medulla oblongata)
2. The gas that is used in making the dry ice is
(oxygen gas – carbon dioxide gas – nitrogen gas)
3. The joints which allow movement in one direction only are joints.
(immovable – slightly movable – freely movable)
4. Handles of cooking pots are made of
(copper – iron – plastic)

4 A) Put (✓) or (X):

1. All materials are good conductors of heat. ()
2. The mass of elements increases after combination with oxygen. ()
3. There are 31 pairs of the cranial nerves. ()

B) Write what each label represents on the opposite figure:

1. The produced gas is
2.
3.



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Worksheets & Exams

4 Giza Governorate - El Warak Directorate

(Guide Answers P. 39)

1 A) Complete the following sentences:

1. Mass is a constant value that doesn't change by changing
2. Handles of cooking pots are made of
3. The main source of oxygen gas is process.
4. The number of cranial nerves in the human body is
5. Nitrogen gas represents % in air.
6. The vertebral column consists of vertebrae.

B) Mention one function of the following:

1. Ribcage.

2. Medical thermometer.

2 A) Choose the correct answer:

1. connect muscles to bones. (Joints – Tendons – Fibers – No correct answer)
2. Which of the following is responsible for keeping the body balance?
(Cerebellum – Two cerebral hemispheres – Spinal cord – No correct answer)
3. The weight is measured by balance.
(sensitive – common – spring – one arm with pointer)
4. is the gas which is used with acetylene gas in welding metals.
(nitrogen – hydrogen – carbon dioxide – oxygen)
5. The centers of thinking and memory lies in
(cerebellum – nerve cells – two cerebral hemispheres – medulla oblongata)
6. The fastest metal in conducting heat is (iron – copper – aluminum – gold)

B) Give one reason for:

1. Using nitrogen gas in filling car tires.
2. Damage of medulla oblongata causes death.

3 A) Write the scientific term:

1. Materials that allow heat to pass through. (.....)
2. Areas between vertebrae of vertebral column that separate and protect them from friction. (.....)
3. A gas composed of three oxygen atoms. (.....)
4. An organ responsible for the reflex actions of the body. (.....)
5. A liquid used in making thermometers. (.....)
6. A gas used in making ammonia. (.....)

B) If the mass of an object on Earth surface = 60 kg, calculate:

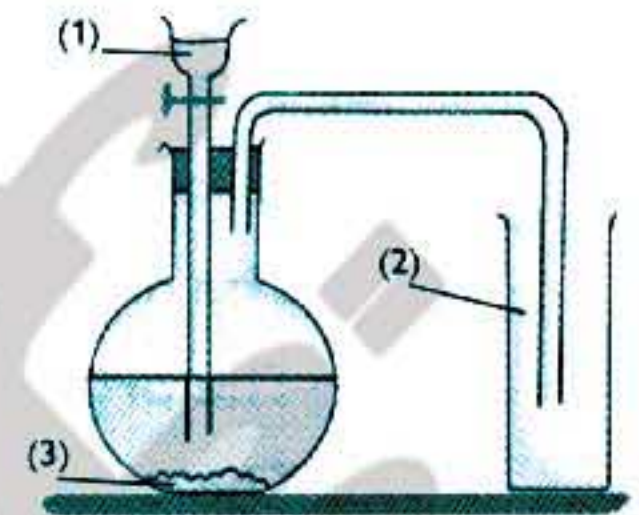
1. Its mass on moon =
2. Its weight on Earth's surface =

4 A) Put (✓) or (X):

1. Heat transfers from hot objects to cold objects. ()
2. The mass of materials decrease after combination with oxygen gas. ()
3. The scale of Celsius thermometer starts from 35°C to 42°C. ()
4. Elbow is from the freely movable joints. ()
5. Nervous cell axon is covered by fatty sheath. ()
6. To keep the nervous system healthy, practice exercises. ()

B) Label the figure:

1.
2.
3.



Worksheets & Exams

5 Giza Governorate - Science Department

(Guide Answers P. 39)

1 A) Complete the following sentences:

1. is the device that is used to measure the mass of an object, while is the device that is used to measure its weight.
2. Handles of cooking pots are made of
3. The number of spinal nerves is and the number of cranial nerves is
4. The graduation of the medical thermometer starts from and each degree is divided into parts.
5. Liquefied nitrogen is used in the treatment of
6. is the liquid that is used in making thermometers.
7. Ozone molecule is composed of atoms.

B) Mention one function for each of the following:

1. Oxy-acetylene flame.

2. Cerebellum.

2 A) Write the scientific term for each of the following:

1. The long strips that fix the muscles to bones. (.....)
2. The materials that don't allow heat to flow through. (.....)
3. It forms protein that builds up the body. (.....)
4. The amount of matter in an object. (.....)
5. The organ which is responsible for reflexes. (.....)
6. The measuring unit of weight. (.....)
7. The phenomenon that increases the temperature of the earth's surface. (.....)
8. The building unit of the nervous system. (.....)

B) What will happen in the following cases...?

1. There is no constriction in the medical thermometer.
.....
2. The over intake of stimulant materials such as tea and coffee.
.....

Worksheets & Exams

6 Giza Governorate - Dokki Directorate

(Guide Answers P. 40)

1 A) Complete the following sentences:

1. Weight is measured by using and its measuring unit is
2. is used to measure the temperature of different liquids, while is used to measure the temperature of the human body.
3. The number of spinal nerves is, while the number of cranial nerves is
4. The human locomotory system consists of two systems which are the system and the system.

B) What happens when?

1. Adding yeast to dough on making bread.
.....
2. Putting a lighting magnesium ribbon in a cylinder filled with nitrogen gas then adding some drops of water to the produced substance.
.....

2 A) Choose the correct answer:

1. Oxygen gas is prepared in the laboratory from decomposition of hydrogen peroxide in the presence of as a catalyst.
(carbon dioxide – manganese dioxide – iron oxide)
2. The indicator that helps us to express the hotness or coldness of the body is
(mass – weight – temperature)
3. The joints that allow movement in one direction is joints.
(slightly – immovable – freely)
4. Respiration and combustion processes consume gas.
(oxygen – nitrogen – chlorine)
5. The fastest metal in conducting heat is
(copper – iron – aluminum)
6. The part that is responsible for keeping the balance of the body is
(cerebrum – cerebellum – medulla oblongata)

B) Give a reason for each of the following:

1. In the medical thermometer there is a constriction above the mercury bulb.
.....
2. Muscles have an important role in movement.
.....

3. Although oxygen is consumed during respiration, its percentage remains stable in the atmosphere.

3 A) Correct the underlined words:

1. Medulla oblongata controls the voluntary movements as walking. (.....)
2. Maximum temperature in Celsius thermometer represents freezing water. (.....)
3. Oxy-acetylene flame is used in cooking food. (.....)
4. The axon of the neuron is covered with a gelatinous layer. (.....)
5. Iron is used in the manufacture of the handles of the electric iron. (.....)
6. Ozone gas consists of four oxygen atoms. (.....)

B) A body whose mass on the earth surface is 30 kg, calculate:

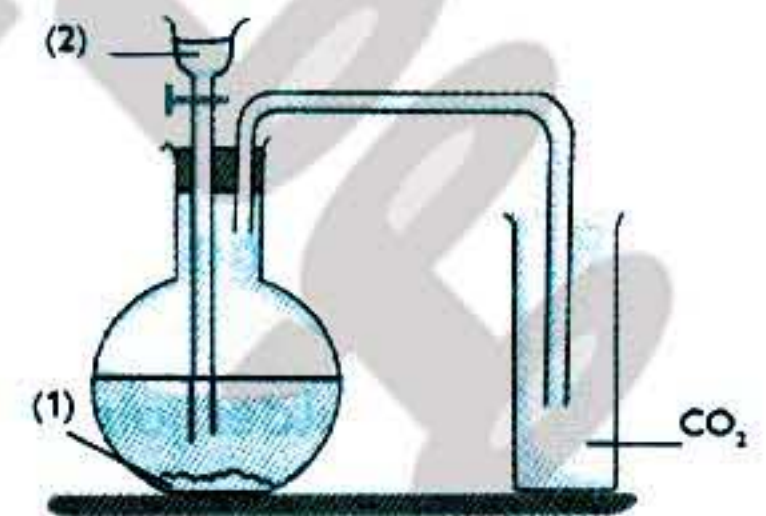
1. Its mass on the surface of the moon
2. Its weight on the surface of the earth
3. Its weight on the surface of the moon

4 A) Write the scientific term for each of the following:

1. Gas that is used in the manufacture of stainless steel. (.....)
2. Materials that don't let heat pass through. (.....)
3. The chemical substance that results from the combination between oxygen and nitrogen during lighting. (.....)
4. Ligaments that tie muscles to bones. (.....)
5. The automatic response of the body to different stimuli. (.....)
6. The part of the brain that is responsible for regulating heartbeats. (.....)

B) Look at the following figure, then answer:

1. Substance number (1) is
 2. Liquid number (2) is
- Carbon dioxide gas is collected by upward displacement of air. Why?
.....
 - Among the properties of the produced gas is making the turbid.



Worksheets & Exams

7 Alexandria Governorate - Wasat Directorate

(Guide Answers P. 40)

1 A) Write the scientific term for each of the following:

1. The amount of matter in an object. (.....)
2. The building unit of the nervous system. (.....)
3. Strong bands that connect the muscles to the bones. (.....)
4. The speed automatic response of the body to external stimuli. (.....)

B) What is the importance of the following:

1. Celsius thermometer
2. The ozone layer

2 A) Choose the correct answer form between brackets:

1. The gas that is mixed with oxygen for cutting and welding metals is
(nitrogen – hydrogen – acetylene – water vapor)
2. The bone that connects the ribs from front is
(femur – skull – sternum – humerus)
3. The mass of a half-liter of distilled water equals
(100 gm – 150 gm – 500 gm – 1000 gm)
4. Among the good conductors of heat is
(wool – wood – plastic – iron)

B) Underline the unsuitable word in the following and mention the reason:

1. Shoulder joint – femur joint – wrist joint – elbow joint.
.....

2. Two cerebral hemisphere-spinal cord – medulla oblongata – cerebellum.
.....

3 A) Complete the following:

1. The scale of the medical thermometer starts from °C to °C.
2. pairs of nerves arise from the brain, while pairs arise from the spinal cord.
3. The weight of an object depends on, and
4. The fastest metal in conducting heat is

B) Give reasons for the following:

1. Carbon dioxide gas is collected by displacement of air upwards and isn't collected by displacement of water.
.....
2. Mercury is used in making thermometers.
.....

4 A) Correct the underlined words in the following:

1. Hydrogen peroxide is used as a catalyst in preparing oxygen in the lab.
2. The occurrence of the fermentation process in the dough nitrogen gas to release.
3. Vinegar is used in sterilizing the medical thermometer before usage.
4. The white matter in the spinal cord has the shape of letter H.

B) If the weight of a person is 600 newton on the earth's surface, then calculate its:

mass on earth then find its weight and mass on the moon's surface.

The mass on the earth =

.....

.....

The weight on the moon =

.....

The mass on the moon =

.....

.....

Worksheets & Exams

8 Alexandria Governorate - Al Montazh Educational Directorate

(Guide Answers P. 40)

1 A) Complete the following:

1. The scale of the Celsius thermometer starts from 0°C and ends at 0°C .
2. maintain the balance of body during movement, while the centers of thinking and memory lie in the
3. The backbone in the human consists of vertebrae with between them to prevent their friction during movement.
4. Oxygen combines with lighted magnesium to form, which is a substance.
5. and are voluntary muscles.

B) Give reasons for:

1. When preparing nitrogen gas air passes through the solution of concentrated sodium or potassium hydroxide.
.....
.....

2. The damage of the medulla oblongata causes death.
.....
.....

2 A) Choose the correct answer from between brackets:

1. The measuring unit of weight is (gm – kg – newton – ton)
2. The fastest metal in conducting heat is (aluminum – copper – iron – steel)
3. is from the gases that have a very pungent smell.
(Ammonia – Oxygen – Nitrogen – Carbon dioxide)
4. All the following damage the nervous system except
(addiction – noise – stimulants – physical exercise)

B) What is the importance of each of the following?

1. Tendons
2. Manganese dioxide
3. Spring scale
4. Liquefied nitrogen



3 A) Write the scientific term:

1. It is an involuntary response to different stimuli. (.....)
2. It is the layer that protects the earth from the harmful radiation that comes from the sun. (.....)
3. The materials that don't let heat flow through. (.....)
4. The amount of matter in an object. (.....)

B) Complete the following table:

Points of comparison	Oxygen gas	Carbon dioxide gas
Its percentage in air
The solubility in water

C) What happens if ...?

1. You shake the medical thermometer before using it.
.....
2. You increase the intake of the stimulating substances like coffee.
.....

4 A) Look at the opposite figure, then answer the questions:

1. The figure represents:
2. Label the figure:
Number 1 refers to
Number 2 refers to
Number 3 refers to



B) If the mass of an object on earth is 6 kg, calculate its weight on earth, its weight on the moon, then find its mass on the moon:

Weight on earth =
 Weight on the moon =
 Mass on the moon =

C) Correct the underlined words:

1. Water is used in making thermometers because it does not stick to the wall of the capillary tube.
2. The elbow joint is one of the freely movable joints.
3. Among the sources of oxygen gas is the burning of the organic substances.
4. The spinal cord consists of a white matter which is in the shape of letter H.
5. The medical thermometer is used in measuring the temperature of liquids.

Worksheets & Exams

9 Qalubia Governorate

(Guide Answers P. 41)

1 A) Complete the following sentences:

1. The number of spinal nerves is and the number of cranial nerves is
2. is used in measuring the temperature of the human body whereas is used in measuring the temperature of liquids.
3. Oxygen is prepared from in the presence of

B) Mention the function of the following:

1. Cerebellum
.....
2. Plastic or wood handles of cooking pots
.....
3. Ozone layer
.....
4. Catalyst
.....

2 A) Write the scientific term for each of the following sentences:

1. The process that is performed by green plants in which carbon dioxide is absorbed from air to produce food and oxygen. (.....)
2. The amount of material (matter) in an object. (.....)
3. A cylindrical axis connected to the cell body and covered with a fatty layer called myelin sheath. (.....)
4. The process that is performed by adding yeast fungus to dough on making bread. (.....)

B) Give reasons for:

1. The weight of anybody differs according to the planet it exists on.
.....
2. Nitrogen is used in filling car tires.
.....
3. The brain is the main control center in the human body.
.....
4. Using oxyacetylene flame in cutting metals.
.....

3 A) Choose the correct answer from the following:

- The grey matter in the spinal cord appears in the shape of letter
a. H b. F c. A d. K
- The fastest metal in heat conduction is
a. iron b. aluminum c. copper d. magnesium
- Newton is almost equal to the weight of an object whose mass is grams.
a. 10 b. 100 c. 1000 d. 10000
- The liquid used in sterilizing the medical thermometer is
a. mercury b. ethyl alcohol c. water d. oil

B) Problem:

– If the mass of an object on earth is 60 kg, then calculate:

- Its weight on the surface of the earth.
.....
- Its weight on the surface of the moon.
.....
- Its mass on the surface of the moon.
.....

4 A) Put (✓) or (X) and correct the wrong one:

- The mass of an object is measured by spring scale. ()
- The spinal cord is responsible for reflex action in human body. ()
- Carbon dioxide is used to make soft drinks. ()
- The heat transfers from cold body to hot body. ()

B) Correct the underlined words in the following statements:

- The elbow joint is one of the immovable joints. (.....)
- The mercury bulb prevents mercury from going back to the bulb quickly. (.....)
- The medulla oblongata lies below cerebral hemispheres. (.....)
- Insulating glass windows are made by bonding three sheets of glass. (.....)

Worksheets & Exams

10 Gharbia – Samanoud Educational Administration

(Guide Answers P. 41)

1 A) Complete the following:

- conducts heat faster than aluminum and iron.
- The gravitational force for a balloon when the distance between the balloon and the center of the Earth decreases.
- are found between the vertebrae of the backbone.
- gas is used in refrigeration, while flame is used in welding metals.
- We use to sterilize the clinical thermometer before using it.

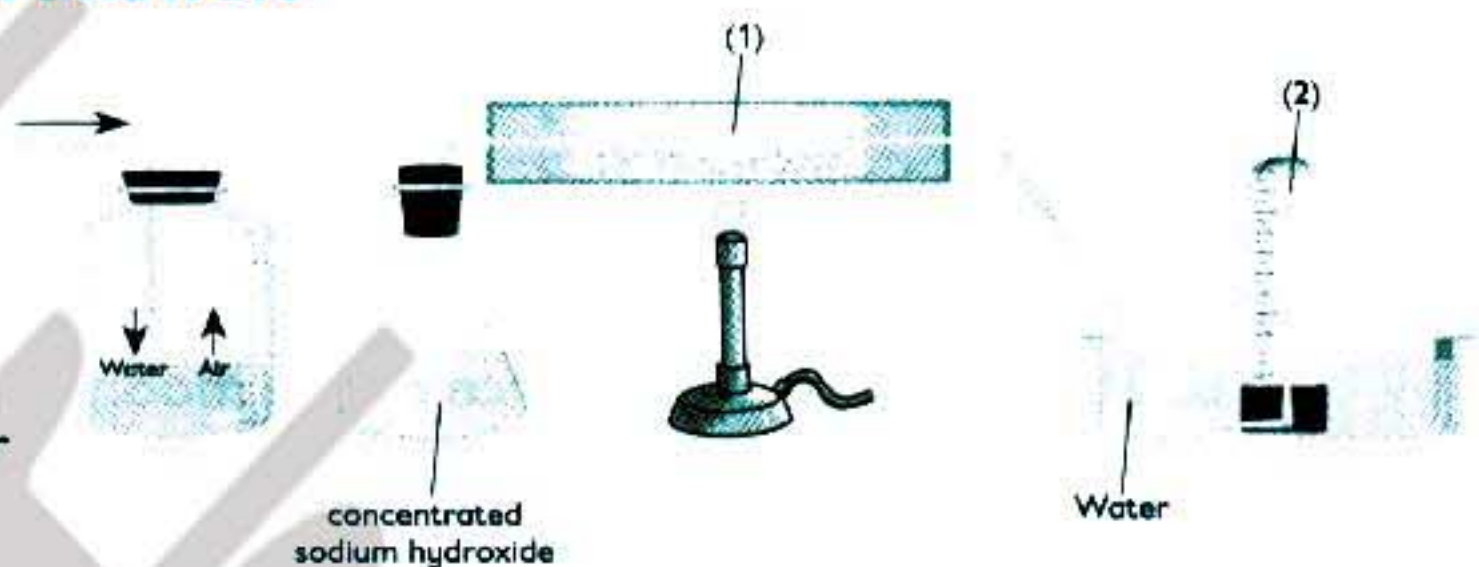
B) Look at the opposite figure then answer:

- Write what each label represents:

(a)

(b) gas.

- Why is atmospheric air passed over label no. (1)?



- What happens when a lighted magnesium ribbon is placed in a cylinder filled with the produced gas, then some water drops are added to the produced substance?

2 A) Write the scientific term for each of the following:

- The gas that raises the temperature of Earth when its percentage increases in air. (.....)
- The area of connection between dendrites of neighboring neurons. (.....)
- The degree of hotness or coldness of a body. (.....)
- The bone which connects the first 10 pairs of ribs interiorly. (.....)

B) Give a reason for each of the following:

- Medulla oblongata helps in breathing.
.....
- Although smoke and dust are considered air pollutants, they have an important role in air.
.....

3 A) Choose the correct answer for each of the following:

- When your finger touches a plant with sharp thorns, the resulted nerve impulses are transmitted to the spinal cord through
a. motor nerve fiber b. sensory center c. sensory nerve fiber d. (a) & (c)
- Water molecule consists of atoms.
a. one oxygen atom and two nitrogen b. one oxygen atom and two hydrogen
c. one nitrogen atom and two oxygen d. one hydrogen atom and two oxygen
- The effect of contraction and relaxation of muscles transfers to the bones through
a. tendons b. joints c. dendrites d. limbs
- When the temperature of mercury increases, its regularly.
a. volume decreases b. mass increases c. volume increases d. (b) & (c)

B) Give one example for each of the following:

- An immovable joint:
- A catalyst:
- The measuring device of small masses:
- Life application on heat insulators:

4 A) Complete the following table:

	Celsius thermometer	Medical thermometer
1. Range of scale
2. Constriction
3. Usage

B) Problem:

A body whose weight is 20 Newton on the surface of the moon. Calculate:

- Its weight on the surface of the earth.
- Its mass on the surface of the earth.

.....

.....

.....

.....

Worksheets & Exams

11 Gharbia - Gharbia Educational Directorate - Science Inspectorate

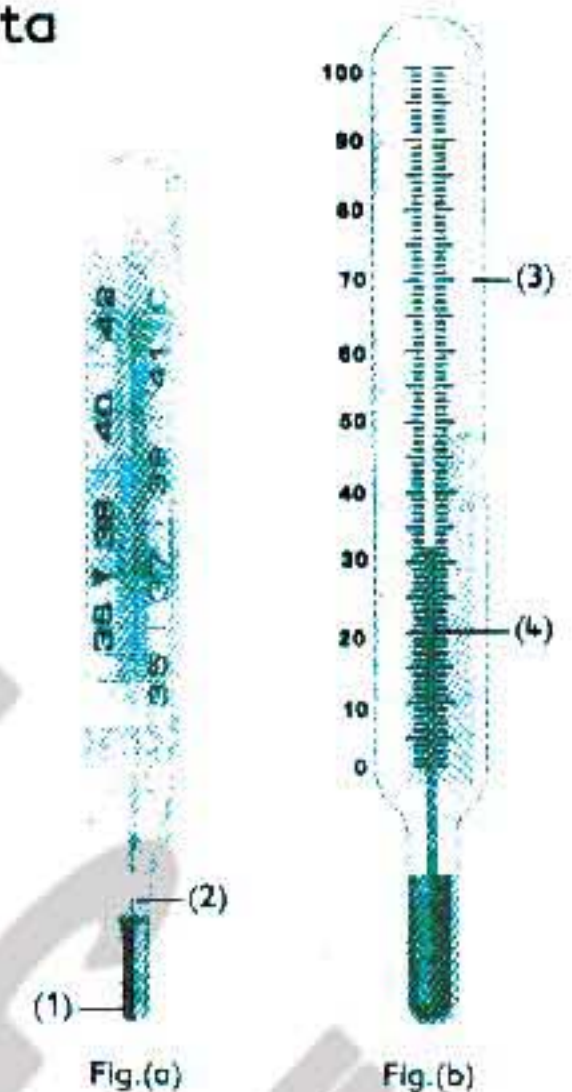
(Guide Answers P. 41)

1 A) Choose the correct answer in each of the following:

- The gas which is used in making dry ice is gas.
a. carbon dioxide b. oxygen c. nitrogen
- When a balloon rises upward from Earth surface, the weight of the person
a. increases b. decreases c. doesn't change
- Among the freely movable joints is
a. knee b. elbow c. shoulder
- Magnesium ribbon keeps burning inside a cylinder full of oxygen gas forming
a. white substance b. black substance c. (a) & (b)
- keeps the body balance during motion.
a. Cerebellum b. Cerebrum c. Medulla oblongata
- The main source of nitrogen is
a. water b. air c. ozone

B) Look at the opposite figure, then answer:

- Figure (a) is thermometer.
Figure (b) is thermometer.
- Label the figure by using the following words:
(Constriction/ thick glass tube/ capillary glass tube/ mercury bulb)
(1) (2)
(3) (4)



2 A) Write the scientific term for each of the following:

- The gas that exists in the atmosphere and protects the Earth from harmful radiations coming from the sun. (.....)
- The instrument that is used to measure the weight of an object. (.....)
- The system which includes the brain and the spinal cord. (.....)
- The form of energy that transfers from an object to another if they differ in temperature. (.....)
- The gas that combines with oxygen to produce a flame whose temperature is sufficient to melt metals. (.....)
- The degree of hotness or coldness of a body. (.....)

B) Put (✓) or (X):

1. Medulla oblongata controls the voluntary movements. ()
2. Carbon dioxide gas is used in filling car tires. ()
3. Oxygen molecule consists of three oxygen atoms. ()
4. Aluminum conducts heat. ()
5. Carbon dioxide gas reacts with clear limewater forming a white precipitate of calcium carbonate which is insoluble in water. ()
6. Kilogram is equal to the mass of one paper clip. ()

3 Complete the following using the words between brackets:

1. Heat transfers from temperature object to temperature object. (equal – high – low)
2. The main idea to make a thermometer is the change of of the liquid by changing (volume – mass – temperature)
3. During photosynthesis process, green plants use gas and release gas. (N_2 – O_2 – CO_2)
4. Among the measuring devices of mass is scale, while the measuring unit of weight is (spring scale – Newton – digital)
5. During the preparation of oxygen gas, hydrogen peroxide decomposes into and (water – air – oxygen)
6. is from the immovable joints, while is an involuntary muscle. (Heart – Elbow – Skull)

4 Choose from column (B) what is suitable to column (A):

(A)	(B)
1. Tendons	a. is rapid combination between element and O_2
2. Oxidation	b. is used in making insulating glass windows.
3. Joints	c. prevent friction between vertebrae.
4. Air	d. are long strips that join muscles to bones.
5. Cartilages	e. is a slow combination between O_2 and an element.
6. Combustion	f. are the positions at which bones meet.

Worksheets & Exams

12 Beheira - Rasheed Administration - Science Supervision

(Guide Answers P. 42)

1 A) Complete the following sentence:

1. Mass is measured by using, while weight is measured by using
2. Oxygen gas is prepared from in the presence of
3. The number of spinal nerves is pairs, while the number of cranial nerves is pairs.
4. Heat transfers from an object of temperature to an object of temperature.

B) If a mass of an object on the earth's surface is 60 kg, then calculate:

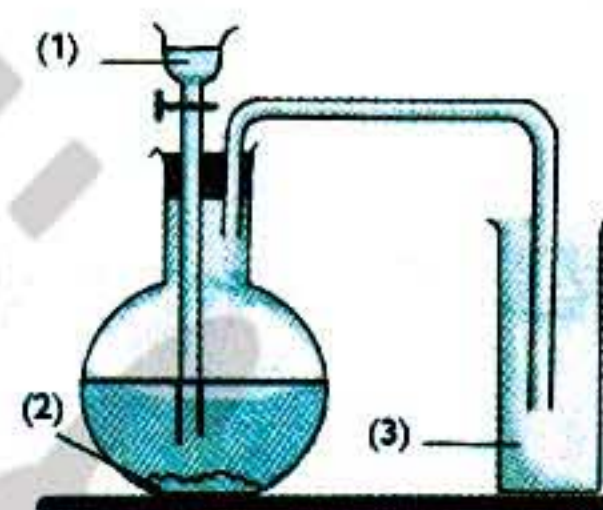
1. Its weight on the earth's surface
2. Its weight on the moon's surface
3. Its mass on the moon's surface

2 A) Write the scientific terms:

1. The building unit of the nervous system. (.....)
2. The bony box in which the brain is located. (.....)
3. The gas that consists of three atoms of oxygen. (.....)
4. The structures that fix muscles to bones. (.....)

B) Look at the opposite figure and answer the questions:

1. Label the figure:
 - (a)
 - (b)
 - (c)
2. Mention two uses of the produced gas



3 A) Give a reason for:

1. Nitrogen is used in filling the car tires.
2. Making handles of cooking pots: from plastic and wood.
3. Objects fall downward to the earth.

4. In the medical thermometer, there is a constriction above the mercury bulb.

B) Choose the correct answer:

1. The gravitational force that affects on an apple whose mass is 200 g = Newton
(2 – 200 – 2000)
2. The beginning and the ending of the scale in the Celsius thermometer is
(1:100 – 0 :100 – 35 :42)

4 A) What happens in the following cases ...?

1. Over intake of stimulating substances such as coffee.
2. You suddenly touch a hot surface.

B) Correct the underlined word:

1. From the freely movable joints is knee.
2. Medulla oblongata is responsible for reflex action.
3. Mercury is a bad conductor of heat.
4. Respiration and combustion processes consume CO₂.



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13 Beheira - Damanhour Directorate

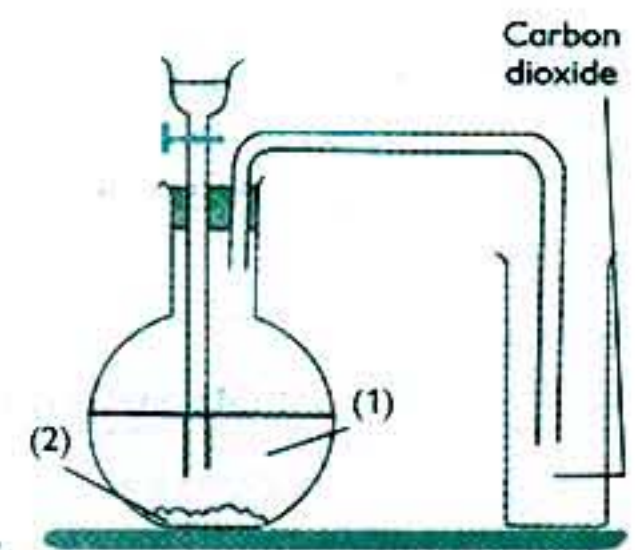
(Guide Answers P. 42)

1 A) Complete the following:

1. Mass is measured by scale, while weight is measured by scale.
2. The number of cranial nerves is pairs and the number of spinal nerves is pairs.
3. The scale of the medical thermometer starts from °C and ends at °C.

B) Look at the opposite figure, then answer the following:

1. The matter (1) is, while the liquid (2) is
2. Carbon dioxide gas is collected by because it is
3. Mention one use of carbon dioxide gas



2 A) Correct the underlined words in each of the following:

1. Shoulder joint is an immovable joint. (.....)
2. Heat transfers from cold object to hot object. (.....)
3. The liquid that is used in the medical thermometer is water. (.....)
4. Exposing a body to sunlight provides the body with vitamin (A). (.....)

B) If an object's mass on the Earth = 60 Kg. Calculate:

1. Its mass on the moon
2. Its weight on the Earth

C) What happens when ...?

- Leaving iron nails in moist air for a long time .
-

3 A) Write the scientific term for each statement of the following:

1. The materials that don't let heat flow through. (.....)
2. The base structure unit of the nervous system. (.....)
3. The gas used in the manufacture of ammonia to produce fertilizers. (.....)
4. The layer in the atmosphere that protects the Earth from harmful radiation coming from the sun. (.....)



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B) Give a reason for each of the following:

1. Cooking pots are made of aluminum.

.....

2. We must shake the medical thermometer well before using it.

.....

3. Although oxygen is consumed during respiration, its percentage remains stable in the atmosphere.

.....

4 A) Choose the correct answer for each of the following:

1. fix muscles on bones. (Joints – Tendons – Muscle fibers)

2. controls reflex actions. (Spinal cord – Cerebellum – Cerebrum)

3. The mass of half liter of water equals grams. (5 – 50 – 500)

4. The fastest metal in conducting heat is (aluminum – copper – iron)

B) State the function (importance) for each of the following:

1. The skull

.....

2. Celsius thermometer

.....

3. Oxy-acetylene flame

.....

Worksheets & Exams

14 Beheira Governorate – Edku Educational Directorate

(Guide Answers P. 42)

1 Complete the following statements:

- conducts heat faster than aluminum.
- Oxygen gas represents% of the volume of the atmosphere and its symbol is
- The main control center in human body is and it is located inside a bony box called
- The medical thermometer scale starts from °C to °C and every degree is divided into parts.
- During lightening gas reacts with gas and Nitrogen oxides are formed.
- The number of vertebrae of the backbone is vertebrae, while the number of ribs of the rib cage is pairs of ribs.

2 A) What would happen in the following cases ...?

- A body moving away from the center of the earth, according to its mass and weight.
.....
.....
- Yeast is added to dough on making bread.
.....
.....

B) Choose the correct answer:

- Nitrogen gas is used in the manufacture of
a. soda water b. ammonia c. bread
- The organ which is responsible for the reflex action is
a. the brain b. cerebellum c. spinal cord
- Dry ice is the solid gas.
a. carbon dioxide b. oxygen c. nitrogen
- Cooking pots are made of
a. aluminum b. stainless steel c. A and B

3 A) Write the scientific term:

- The device that is used to measure the temperature of liquids. (.....)
- The automatic response of the body to different stimuli. (.....)

B) An object, its mass is 0.6 kilogram on the Earth's surface, calculate:

(Write the used law)

1. The weight of this object on the Earth's surface.

2. Its weight on the moon's surface.

C) Give a reason:

1. During preparation of nitrogen gas in laboratory we let the air pass over the hot copper.

2. Heart muscle is from the involuntary muscles.

4 A) Correct the underlined words:

1. Wood is from the good conductors of heat.

(.....)

2. Green plants consume oxygen gas during photosynthesis process.

(.....)

3. The main idea to make a thermometer is changing the mass of the liquid according to the temperature.

(.....)

4. Tendons are the sites where bones meet.

(.....)

B) Mention one function of:

1. Bones of the upper limbs

2. The medulla oblongata.

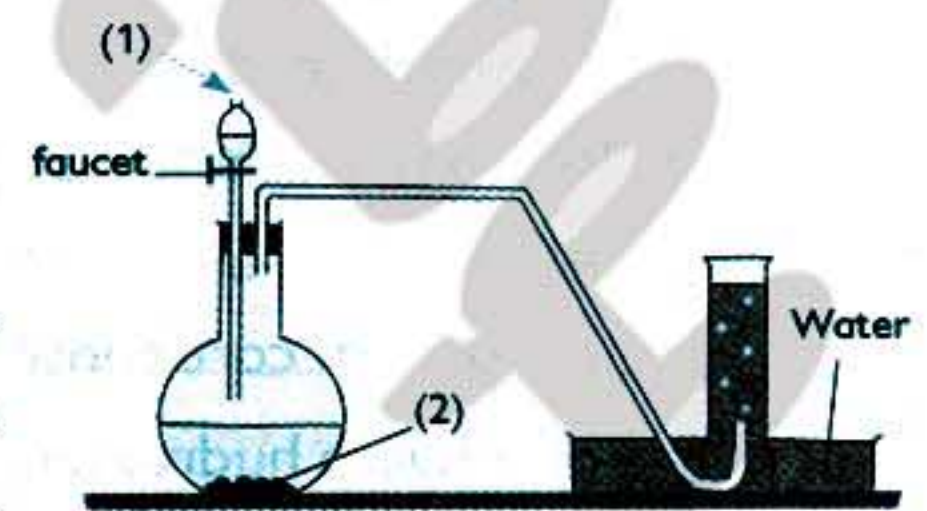
C) Look at the opposite figure and answer:

– The opposite figure represents the preparation of gas.

Number (1) is

Number (2) is

– We collect the produced gas by displacing the



Worksheets & Exams

15 Damietta Governorate

(Guide Answers P. 43)

1 A) Complete the following statements:

1. The is used in measuring the temperature of liquids whereas the is used in measuring the temperature of the human body.
2. Water consists of the union of one atom of with two atoms.
3. The human skeletal system consists of and
4. Mass is measured by using and the measurement unit of the weight is

B) Correct the following statements:

1. The skull joints are from slightly movable joints.
2. When the mass of an object on Earth surface equals 6 kilograms, then its weight on moon's surface is 60 Newtown.
3. Aluminum conducts heat faster than copper and iron.
4. The atmosphere protects the earth by absorbing the gases coming from outer space.

2 A) Choose the correct answer:

1. are among bad conductors of heat.
 - a. Iron and aluminum
 - b. Copper and glass
 - c. Glass and wood
 - d. Aluminum and copper
2. The scientist who discovered nitrogen gas is called
 - a. Andres Celsius
 - b. Joseph Pristhy
 - c. Danial Rutherford
 - d. Antoine Lavoisier
3. All the following are from the components of central nervous system except
 - a. spinal nerves
 - b. two cerebral hemispheres
 - c. spinal cord
 - d. medulla oblongata
4. When the exhaled air passes through clear limewater, it turns turbid due to the formation of
 - a. calcium carbonate
 - b. calcium oxide
 - c. calcium hydroxide
 - d. calcium sulphats
5. The measuring device of the weight is
 - a. sensitive balance
 - b. two arm scale
 - c. the spring balance
 - d. digital scale
6. fix muscles with bones.
 - a. Tendons
 - b. Joints
 - c. Muscular fibers
 - d. (a and b)



B) What happens in the following states...?

1. The overuse of stimulation drugs.

.....

2. The percentage of carbon dioxide gas increases in the atmospheric air.

.....

3 A) Write the scientific term for the following statements:

1. The amount of matter that the body contains. (.....)

2. The spontaneous response of the body to different stimuli. (.....)

3. The gas that is prepared from hydrogen peroxide. (.....)

4. Type of muscles that act spontaneously and cannot be controlled. (.....)

5. It is the degree of hotness or coldness of a body. (.....)

6. A flame used in cutting and welding metals. (.....)

B) Look at the following figure, then answer the questions:

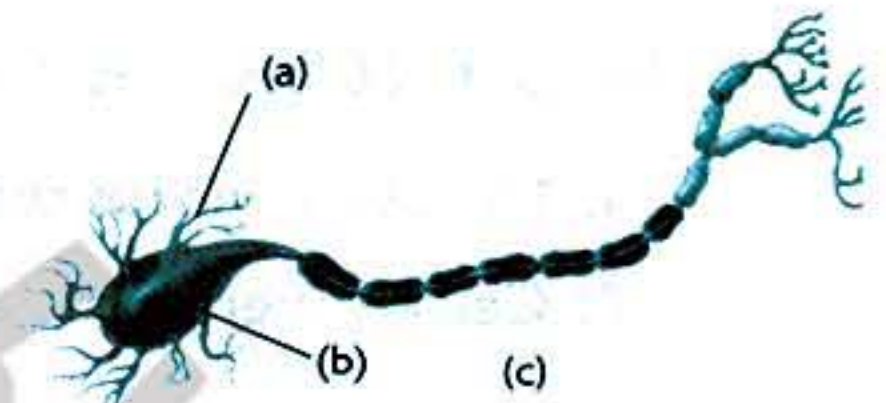
1. This figure indicates the structure of

2. Label the points on the figure:

a.

b.

c.

**4 A) Give reasons:**

1. The handles of cooking pots are made of wood or plastic while the cooking pots are made of aluminum.

.....

2. During preparation of nitrogen gas in laboratory, air is passed in potassium hydroxide solution and over a hot copper.

.....

3. The weight of the body differs according to the planet where the body exists.

.....

B) Mention one function:

1. The constriction above the bulb in the medical thermometer.

.....

2. The two cerebral hemispheres.

.....

Worksheets & Exams

16 Sharkia Governorate - Diarb Negm Educational Directorate

(Guide Answers P. 43)

1 A) Complete the following:

1. The weight measuring unit is, where the mass measuring unit is
2. According to heat conduction the materials are divided into and
3. gas is used in composing gunpowder, while gas is used in welding metals.
4. Brain consists of two cerebral hemispheres, and
5. Backbone consists of vertebrae, while rib cage consists of pairs of ribs.

B) Mention the importance of:

1. Joints:
2. Cerebellum:

2 A) Correct the underlined words:

1. Mass is the force that attracts the objects to the earth. (.....)
2. Celsius thermometer is used to measure the temperature of human body. (.....)
3. Tendons are the location where the two bones meet each other. (.....)
4. The number of cranial nerves are 31 pairs of nerves. (.....)

B) What happens when ...?

1. The ratio of CO_2 gas increases continuously in the atmospheric air.
.....
2. Something gets very close to your eyes.
.....

3 A) Write the scientific term for each of the following:

1. A device used to measure the temperature. (.....)
2. A gas used to make stainless steel that doesn't rust. (.....)
3. The skeleton that include skull, backbone and rib cage. (.....)
4. The building unit of the nervous system. (.....)

B) Give reasons for:

1. The atmosphere is very important for the continuity of life on the earth's surface.

.....

2. Damage of the medulla oblongata leads to death.

.....

4 A) Choose the correct answer:

1. If the weight of a body is 20 newton on the earth's surface, then its mass equals
(200 kg – 20 kg – 2 kg)
2. The number of cranial nerves equals pairs of nerves. (31 – 12 – 21)
3. Hydrogen peroxide is used in preparing gas. (N_2 – O_2 – CO_2)
4. is from the freely movable joints. (Elbow – Thigh – Knee)

B) If an object's mass = 6 kg on Earth, calculate:

- Its mass on the moon
- Its weight on the Earth
- Its weight on the moon



Worksheets & Exams

17 South Sinai - Tur Sinai Educational Directorate

(Guide Answers P. 43)

1 A) Complete the following sentences:

1. Mass is measured by using, while weight is measured by using
2. thermometer is used in measuring water temperature and its scale starts from
3. In photosynthesis process the plant absorbs gas and produces gas.
4. gas is called azote which means lifeless.
5. Among the examples of the freely movable joints is
6. In the atmospheric air oxygen gas exists by ratio % and nitrogen gas exists by ratio %.

B) If the mass of an object on the earth's surface equals 15 kg, then calculate:

1. Its mass on the moon's surface.
2. Its weight on the earth's surface.

2 A) Correct the under line word:

1. Oxygen gas does not burn and does not help in burning.
2. The weight of an object is constant and does not change by changing the place.
3. All materials are good conductors of heat.
4. Plastic is used to make cooking pots.
5. The vertebral column consists of 12 pairs of ribs.
6. Copper is bad conductor of heat.

B) Give a reason for each of the following:

1. Nitrogen gas is used in filling car tires.
2. We wear wool clothes in winter.
3. The yeast is added to dough to make bread.

C) Mention one benefit only for the following:

1. Bad conductors of heat.
2. Spinal cord.
3. Oxygen gas.

3 A) Write the scientific term for each of the following:

1. The force with which a body is attracted to the earth. (.....)
2. A gas is composed of three atoms of oxygen. (.....)
3. The amount of matter in an object. (.....)
4. The material that let heat flow through. (.....)
5. The flame that is used in cutting and welding metals. (.....)
6. The gas that is used in the manufacture of ammonia gas. (.....)

B) What happens in the following cases ...?

1. All the materials which man use are good conductors of heat.
.....
2. Leaving a wet nail for several days in humid air.
.....
3. Sitting for a long period in front of computer.
.....

C) Look at the opposite figure, then answer the following:

1. Mention its name.
2. Mention its uses.
3. Mention the name of the liquid which exists inside it.



4 A) Choose the correct answer from the following:

1. The best metal in heat conduction is (copper – aluminum – iron)
2. The gray matter in the spinal cord appears in the shape of letter (H – F – A)
3. The measuring unit of weight is (Newton – gram – kilogram)
4. Nitrogen gas is used in the manufacture of (soda water – fertilizers – dry ice)
5. The gas which makes limewater turbid is (oxygen – nitrogen – carbon dioxide)
6. Hydrogen peroxide dissociates in the presence of manganese dioxide into
(oxygen and hydrogen – oxygen and water – hydrogen and manganese)

B) Choose from column (B) what is suitable in column (A):

(A)	(B)
1. Joints	a- prevent the friction between vertebrae.
2. Tendons	b- is responsible for regulating the involuntary process.
3. Cerebellum	c- is responsible for regulating the voluntary movement.
4. Cartilages	d- are long strips that fix bones to muscles.
5. Medulla oblongata	e- is building unit of nervous system.
6. Cerebrum	f- the location where bones meet in the body.
	g- keeps the balance of human body.

Worksheets & Exams

18 Beni Suef - Beni Suef Educational Directorate

(Guide Answers P. 44)

1 A) Complete the following statements:

1. As the mass of the planet on which the body exists increases, the of the body increases.
2. There is a constriction in thermometer.
3. Nitrogen gas is used in the manufacturing of that does not rust.
4. Centers of thinking and memory are located in

B) Mention one function for:

1. Celsius thermometer

2. Rib cage

2 Choose the correct answer:

1. One newton equals (10 gm – 100 gm – 1000 gm)
2. Among the substances which are good conductors of heat is (plastic – wood – aluminum)
3. When exhaled air passes through clear limewater, it becomes turbid forming substance. (calcium carbonate – calcium hydroxide – calcium sulphate)
4. If nitrogen gas is combined with a burning magnesium ribbon and water is added, then gas evolves. (hydrogen – oxygen – ammonia)
5. Hydrogen peroxide is used in the preparation of (oxygen – carbon dioxide – nitrogen)
6. Among the freely movable joints is (elbow – shoulder – knee)

3 A) Correct the underlined words:

1. Iron is among the fastest elements in conducting heat.
2. Among the materials that expand regularly is water.

3. Oxygen represents 78% of air components.

4. Vertebral column is made of 35 vertebrae.

B) Give reasons for each of the following:

1. The weight of a person in a flying balloon is less than its weight on Earth.

2. Wearing heavy woolen clothes in the winter.

4 A) Write the scientific term:

1. The amount of matter in an object. (.....)

2. The indicator that helps us to express the hotness or coldness of an object. (.....)

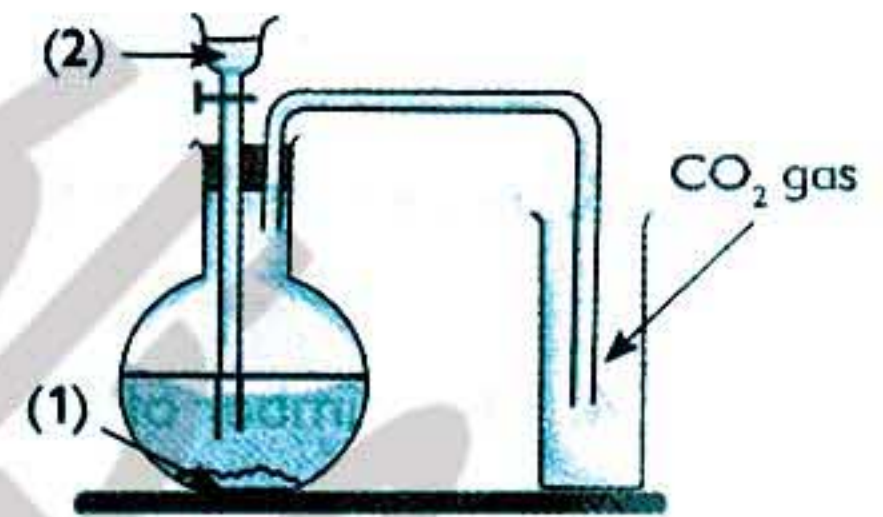
3. The building unit of the nervous system. (.....)

4. It consists of upper and lower limbs. (.....)

B) This apparatus represents the preparation of carbon dioxide gas in the laboratory, label the following:

1. Substance (1) refers to

2. Liquid (2) refers to



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Worksheets & Exams

19 Beni Suef - Ehnasya Educational Directorate

(Guide Answers P. 44)

1 Complete the following statements:

1. The mass is measured in unit, while the weight is measured in unit.
2. During photosynthesis process, the plant absorbs gas and produces gas.
3. Carbon dioxide can be prepared by adding to powder.
4. The water freezes at degree and boils at degree.
5. The balance scale is used in measuring, while the spring scale is used in measuring
6. According to heat conductivity, materials are classified into materials and materials.

2 A) Choose the correct answer.

1. The fastest material in conducting heat is
(iron – aluminum – copper – plastic)
2. Which of the following gases is not an atmospheric gas?
(Oxygen – Nitrogen – Carbon dioxide – Ammonia)
3. The planet on which a body's weight is 6 times its weight on the moon is
(Earth – Mars – Jupiter – Mercury)
4. The number of spiral nerves is pairs.
(32 – 24 – 12 – 31)

B) Give reasons for:

1. There is a constriction in the capillary tube of the medical thermometer.
.....
2. Ozone layer is considered a protection layer for the Earth.
.....

3 A) Write the scientific term:

1. The building unit of the nervous system. (.....)
2. The amount of matter in an object. (.....)
3. An organ in the central nervous system which is responsible for reflex actions. (.....)
4. The indicator that helps us to express the degree of hotness or coldness of a body. (.....)



B) Mention the importance for each of the following:

1. Rib cage.

.....

.....

2. Two cerebral hemispheres.

.....

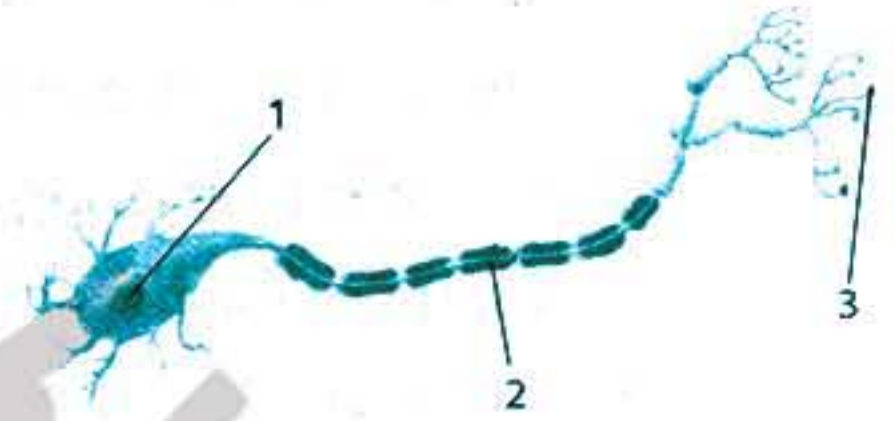
.....

4 A) Correct the underlined words.

1. The liquid used in thermometer is a alcohol.
2. There are 10 pairs of cranial nerves emerging from the brain.
3. Shoulder joint is from the slightly movable joints.
4. Salt is added to dough to make it porous and tasty.

B) Study the following figure and write the labels:

1.
2.
3.
4. The figure represents



Worksheets & Exams

20 Assuit Governorate - Science Supervision

(Guide Answers P. 44)

1 Complete the following statements:

1. The mass is measured in unit and the weight is measured in unit.
2. Oxygen gas is prepared from in presence of
3. The human skeletal system consists of and
4. The nerve cell consists of two principal parts and
5. The number of vertebrae of the backbone in human body is with cartilages.
6. The rib cage consists of pairs of ribs.

2 A) Put (✓) in front of the right statement and (X) in front of the false statement and correct the false ones:

1. Mass is the force with which a body is attracted to the earth. ()
2. Heat transfers from a cold object to a hot object. ()
3. Nitrogen is used in filling cars tires. ()
4. Handles of cooking pots are made of copper. ()
5. Shoulder joint is an immovable joint. ()
6. Spinal cord controls reflex actions. ()

B) What happens in these cases ...?

1. Increasing the percentage of carbon dioxide in atmosphere.
.....
2. Adding water to the lighted magnesium ribbon in nitrogen gas.
.....

3 A) Write the scientific term:

1. The substances which don't allow heat to pass through.
.....
2. A kind of thermometer which is used to measure the temperature of liquids.
.....
3. The main center of control in the human body.
.....
4. The flame which is used for cutting and welding metals.
.....



B) If the mass of a body is 12 kilograms on the earth's surface, then calculate:

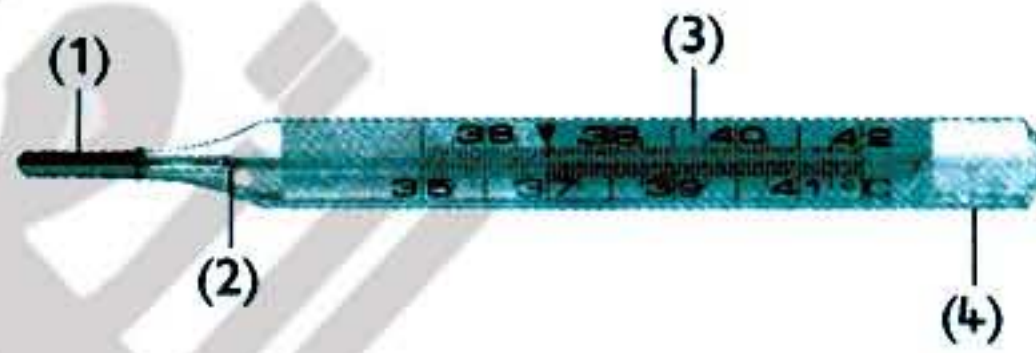
1. The mass of the body on the moon.

.....

2. The weight of the body on the moon's surface.

.....

4 A) Notice the following figure and write the labels on it:



Complete the following:

1.
2.
3.
4.

B) Give a reason for each of the following:

1. We use carbon dioxide in fire extinguishing.

.....

2. Damage of the medulla oblongata may lead to death.

.....

3. The heart and lungs are surrounded by rib cage.

.....

Worksheets & Exams

21 Qena Governorate ~ Directorate of Education

(Guide Answers P. 45)

1 A) Write the scientific term for each of the following:

1. A form of energy that transfers from an object of high temperature to another object of low temperature. (.....)
2. The automatic response of the body to different stimuli. (.....)
3. The gas whose molecule consists of three oxygen atoms. (.....)
4. Materials that don't allow heat to flow through. (.....)

B) If the mass of an object on the earth's surface equals 6 Kg, then find the following:

1. The object's mass on the moon.
.....
2. The object's weight on the Earth.
.....
3. The object's weight on the moon.
.....

2 A) Complete the following sentences:

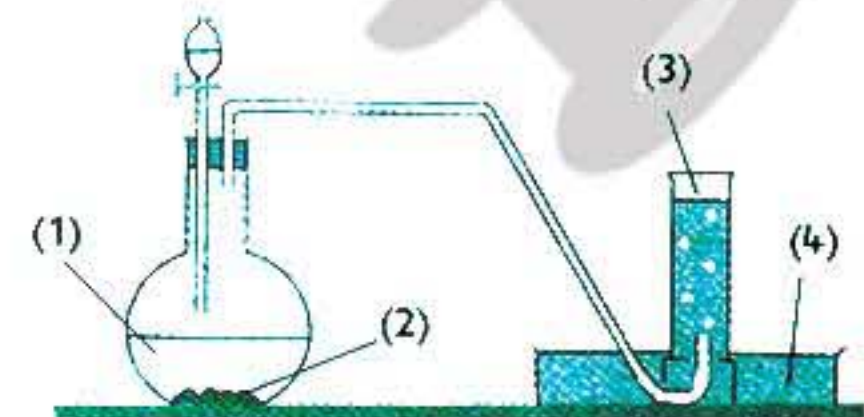
1. The basic structure unit of the nervous system is
2. is the degree of hotness or coldness of a body.
3. We use material to detect the presence of carbon dioxide gas in laboratories.
4. To measure the temperature of liquids, thermometer is used.

B) Give a reason for each of the following:

1. Cooking pots are made of copper or aluminum.
.....
2. Damage of medulla oblongata leads to death.
.....
3. Mercury is used in the manufacturing of thermometers (2 points)
.....

3 A) Label the figure:

1.
2.
3.
4.



B) What happens in the following cases ...?

1. The percentage of CO_2 in air increases.

.....

2. The front arm muscle contracts and the back arm muscle relaxes.

.....

3. When you touch a plant with sharp thorns.

.....

4 A) Choose the correct answer from between brackets:

1. The weight is measured by

(one arm scale – two arm scale – sensitive two arm scale – spring scale)

2. The number of spinal nerves is pair of nerves. (33 – 31 – 12 – 10)

3. is used to remove oxygen from air during the preparation of nitrogen gas.
(Hot copper – Sodium hydroxide solution – Ammonia gas – Water)

4. The scale of medical thermometer ranges from °C to °C.
((35 – 42) – (37 – 45) – (35 – 45) – (0 – 100))

B) Write the importance of each of the following:

1. Constriction in the medical thermometer.

.....

2. Tendons.

.....

3. Nitrogen gas (only two).

.....

Worksheets & Exams

22 Sohag - Ekhmeem Educational Directorate

(Guide Answers P. 45)

1 A) Complete the following statements:

1. Balance scale is used to measure, while is used to measure a body's weight.
2. The neuron consists of and
3. Copper is from conductors of heat, while is from the bad conductors of heat.
4. Carbon dioxide gas is important for the process in plants, while gas is important for the respiration process in living organisms.

B) What happens in the following cases ...?

1. The absence of nitrogen from the atmosphere.
.....
2. Knee joints become freely movable joints.
.....

2 A) Compare between medical thermometer and Celsius thermometer:

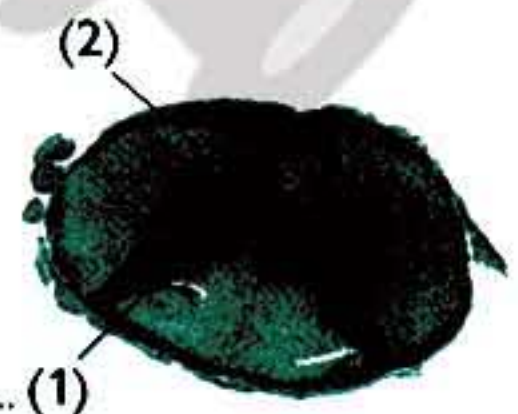
Points of comparison	Medical thermometer	Celsius thermometer
1. Usage		
2. Scale		
3. Constriction		
4. Used liquid		

B) Give a reason for each of the following:

1. Manganese dioxide does not change during the preparing of oxygen.
.....
2. There are cartilages between the vertebrae of the backbone.
.....

3 A) The opposite figure shows a cross-section of the spinal cord.
Answer the following:

1. Write the missing labels:
Matter (1)
Matter (2)
2. Mention the location of the spinal cord in the body



B) Write the scientific term for each of the following statements:

1. The flame which is used in cutting and welding metals. (.....)
2. The bony box that protects the brain. (.....)
3. It is the device that is used to measure the temperature. (.....)
4. Substance that is used to detect the presence of carbon dioxide in exhalation process. (.....)

4 A) If the weight of an object is 60 Newton on the earth's surface, then calculate the following: (mentioning the used law)

1. Its mass on the earth's surface.
.....
2. Its mass on the moon's surface.
.....
3. Its weight on the moon's surface.
.....

B) Define each of the following:

1. Involuntary muscles.
.....
2. Global warming.
.....

C) Mention one importance of each of the following:

1. The atmosphere
.....
2. Liquified nitrogen
.....

Worksheets & Exams

23 Sohag - El Balyana Educational Directorate

(Guide Answers P. 46)

1 A) Choose the correct answer:

- The number of cranial nerves is pairs of nerves. (31 – 21 – 12)
- Myelin sheath surrounds the
(nerve cell axon – cerebellum – spinal cord)
- are what fix muscles to bones.
(Tendons – Joints – Muscle fibres)
- Nitrogen is used to make which doesn't rust.
(iron – stainless steel – aluminum)

B) Mention one function for each of the following:

- Nitrogen gas for all living organisms.
.....
- The Celsius thermometer.
.....

2 A) Write the scientific term:

- The system which is composed of the brain and the spinal cord. (.....)
- The area at which two bones meet. (.....)
- Materials that let heat flow through. (.....)
- The device that is used to measure the mass of objects. (.....)
- The gas whose molecule consists of three atoms of oxygen. (.....)

B) An object's mass = 12 kg on Earth, calculate:

- Its weight on the Earth.
.....
- Its weight on the moon.
.....

3 A) Complete the following statements:

- An object's weight is measured in unit.
- Among the examples of bad conductors of heat are and
- The scale of the medical thermometer starts from and ends at

B) Give a reason for each of the following:

1. Oxygen is collected by displacing the water downwards in the flask during its preparation in the laboratory.
.....
2. Carbon dioxide is used in extinguishing fires.
.....
3. Withdrawal of the hand quickly when it suddenly touches a hot surface.
.....

4 A) Correct the underlined word(s):

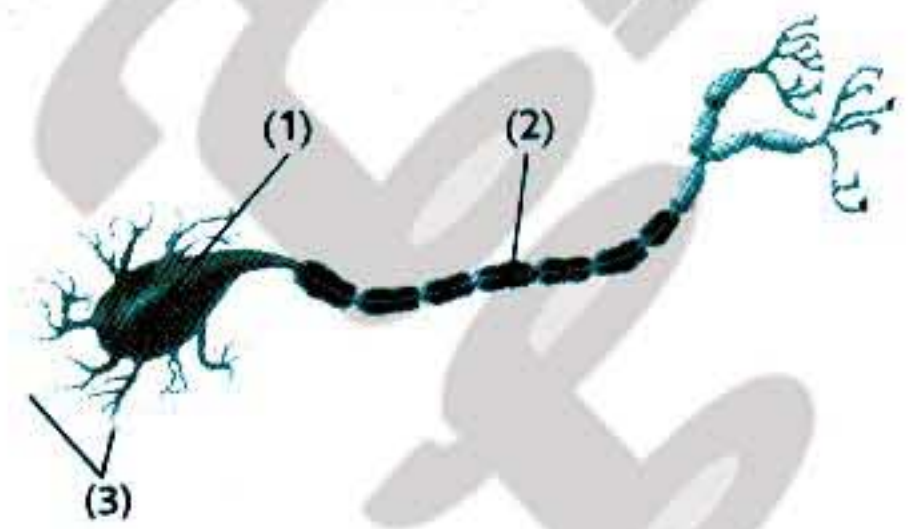
1. Plastic is a good conductor of heat.
2. The liquid which is used in the medical thermometer is water.
3. Oxygen gas doesn't burn and doesn't help in burning.
4. Knee joint is a freely movable joint.
5. One of the components the nerve cell is the presence of blood vessels.

B) What happens in the following cases

1. A nail wetted by water is exposed several days to humid air.
.....
2. A man is exposed to noise continuously.
.....

C) Observe the following figure of the nerve cell and write the labels:

1.
2.
3.



Worksheets & Exams

24 Sohag Governorate - Sohag Educational Directorate

(Guide Answers P. 46)

1 A) Complete the following:

1. is measured in kilogram unit, while weight is measured in unit.
2. and are from the examples of good heat conductors.
3. In photosynthesis process the green plant uses gas and produces gas.
4. The human nervous system consists of two major systems which are and
5. Nitrogen gas is collected by downward displacement of
6. There is a constriction in the thermometer.

B) If the mass of a body on the earth's surface is 6 kg. Calculate:

1. Its weight on the earth's surface.
.....
2. Its weight on the moon's surface.
.....

2 A) Put (✓) or (X):

1. The measurement tool of weight is balance scale. ()
2. The main source of nitrogen is the atmospheric air. ()
3. The knee joint is from the freely (wide) movable joints. ()
4. Oxygen gas represents 21% of the atmospheric air. ()
5. Medical thermometer is used to measure the temperature of liquids. ()

B) Give a reason for each of the following:

1. CO_2 is used to put out fires.
.....
2. The infection of medulla oblongata leads to death.
.....
3. Aluminum is used in the manufacturing of cooking pots.
.....

3 A) Choose the correct answer:

1. The force with which the body is attracted to the earth is
(mass – weight – volume)

2. The liquid that is used in making Celsius thermometer is
(water – alcohol – mercury)
3. The molecule of nitrogen gas consists of of nitrogen.
(one atom – two atoms – three atoms)
4. The grey matter in the spinal cord appears in the shape of letter
(A – F – H)
5. is used in making the handles of the electric iron.
(Plastic – Iron – Aluminum)

B) Mention one function for each of the following:

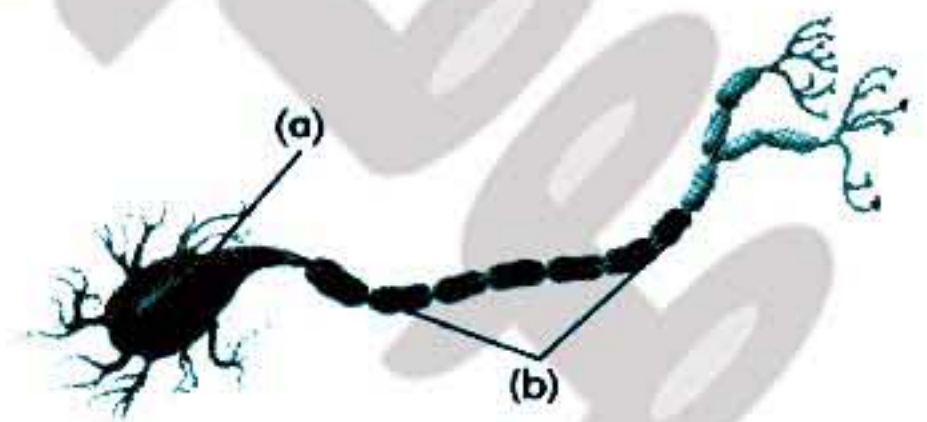
1. Clear limewater.
.....
2. Cartilages.
.....
3. Manganese dioxide in preparing oxygen gas
.....

4 A) Write the scientific term:

1. Materials which don't let heat to pass through. (.....)
2. The device that is used to measure the temperature. (.....)
3. The gas that is used in filling car tires. (.....)
4. What fixes muscles to bones. (.....)
5. The gas that is used in cutting and welding metals. (.....)

B) Look at the opposite figure, then answer:

1. What is its name?
2. Label the figure.
a)
b)



Worksheets & Exams

25 Aswan – Aswan Educational Directorate

(Guide Answers P. 47)

1 A) Complete the following:

1. The mass is measured in unit, while the weight is measured in unit.
2. The water freezes at and boils at
3. The percentage of carbon dioxide in atmosphere is and its symbol is
4. Among the substances which are good conductors of heat are and

B) Give a reason for each of the following:

1. The brain is located inside the skull.
.....
2. Nitrogen gas is used in filling car tires.
.....

2 A) Choose the correct answer from between the brackets:

1. The measuring tool of weight is
(one pan balance – two-pan balance – digital balance – spring balance)
2. Which of the following gases has the greatest percentage in the atmospheric air?
(Oxygen – Nitrogen – Carbon dioxide – Water vapor)
3. The cerebellum is responsible for
(thinking operations – balancing the body – reflex actions – regulating the heartbeats)
4. Weight (Newton) = mass (kg) ×
(10 – 100 – 1000 – 10000)

B) What happens if ...?

1. The percentage of carbon dioxide increased in the atmospheric air.
.....
2. Thigh joints are slightly movable joints.
.....

3 A) Give the scientific term for the following:

1. The amount of matter that a body contains. (.....)
2. The building unit of nervous system. (.....)
3. The liquid that is used in making thermometers. (.....)
4. The organ that consists of a grey matter in the form of letter H surrounded by the white matter. (.....)

B) Give one importance for the following:

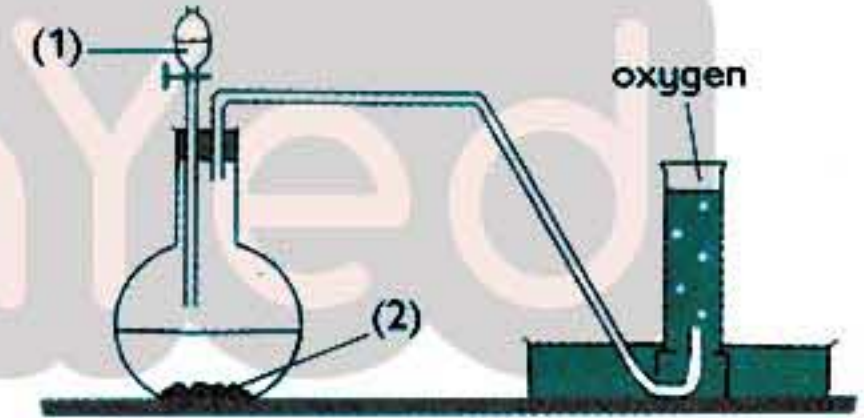
1. Rib cage.
.....
2. Clinical thermometer.
.....

4 A) Put (✓) or (X) in the front of the following statements:

1. Cooking pots and boilers are made of plastic. ()
2. The masses of substances decrease after combining with oxygen. ()
3. The skeleton of the lower limb consists of humerus bones, two fore arm bones and bones of the hand. ()
4. Legumes such as clover benefit from the nitrogen in the air. ()

B) Look at the opposite figure, then answer:

1. The liquid (1) is
2. The substance (2) is



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